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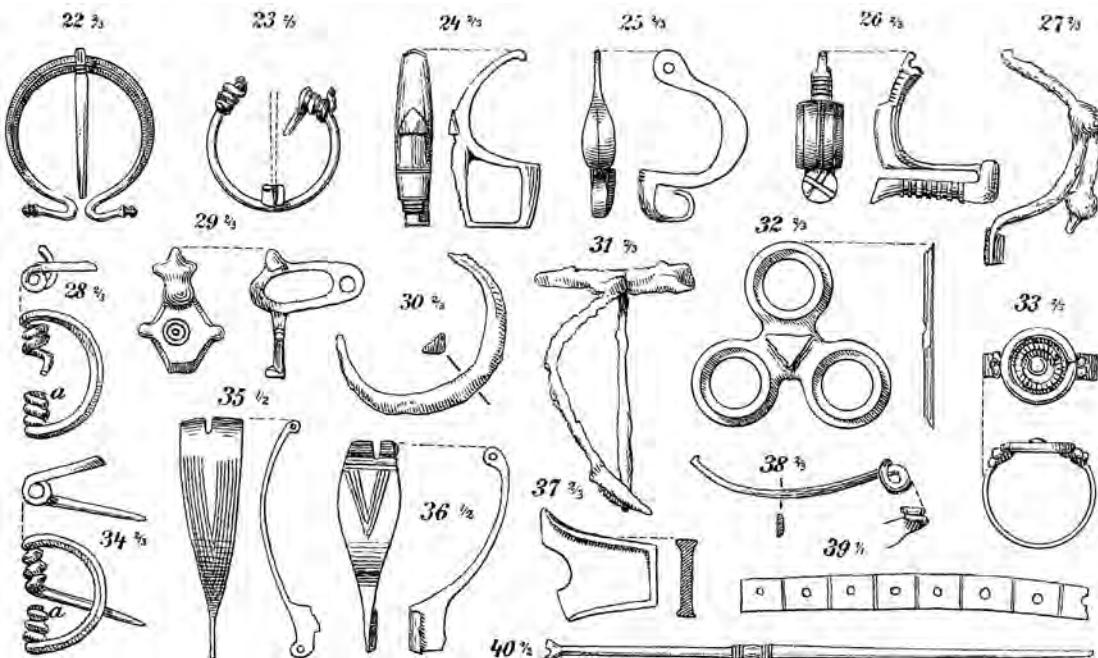
## A NEW FRAGMENT OF A HISPANO-CHALCIDIAN HELMET FROM CASTILLEJO (PROV. SORIA) IN THE RGZM

We present a new fragment of a Hispano-Chalcidian helmet recovered from the materials deposited by A. Schulten in the Römisch-Germanisches Zentralmuseum in Mainz (RGZM), that came from Castillejo (Garray, prov. Soria/E), the site of one of the principal Roman camps built for the siege of Numantia. It was identified<sup>1</sup> during a review of the RGZM collections before undertaking a comprehensive study to analyse all the pre-Roman finds excavated by A. Schulten around the Celtiberian city<sup>2</sup>.

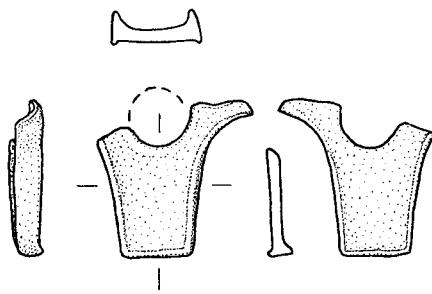
The study of the complete piece, for the moment in the catalogue of the Hispano-Chalcidian series, while permitting an archaeo-metallurgical approach to the group, requires some general chronological considerations and, ultimately, means reflecting on the possible pre-Roman occupation of Castillejo, as A. Schulten suggested<sup>3</sup>. Objects from various periods, from the Late Chalcolithic to the Iron Age and even from the early Roman Empire<sup>4</sup> were found at the site, which appears in the specialised bibliography as Castillejo or El Castillejo.

### DESCRIPTION OF FRAGMENT INV. NO. O.18477 AND ITS TYPOLOGICAL AFFILIATION

The fragment was identified in July 2014 while reviewing the materials from Schulten's excavations around Numantia deposited in the RGZM storerooms. Nevertheless, the piece was not unrecorded, as A. Schulten



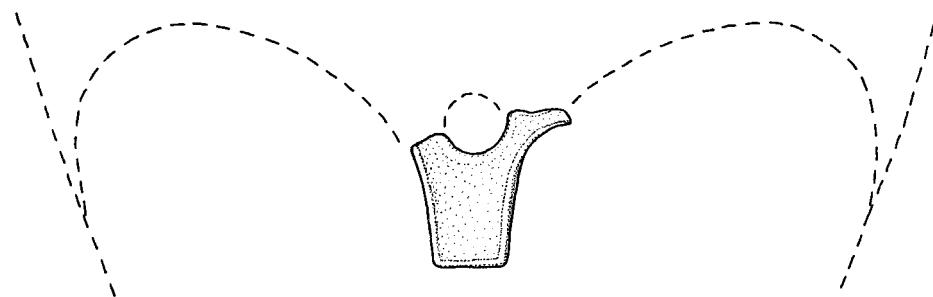
**Fig. 1** Finds from the Numantine camps, with the fragment of a helmet analysed (37), which came from Castillejo (Garray, prov. Soria/E). – (After Schulten 1927, pl. 45).



**Fig. 2** The fragment of the Castillejo helmet studied here. – (Drawing M. Weber, RGZM).



**Fig. 3** The fragment of the Castillejo helmet studied here: the outside (a) and the inside (b). – (Photos R. Müller, RGZM).



**Fig. 4** Suggested reconstruction of the fragment of the Castillejo helmet. – (Drawing M. Weber, RGZM).

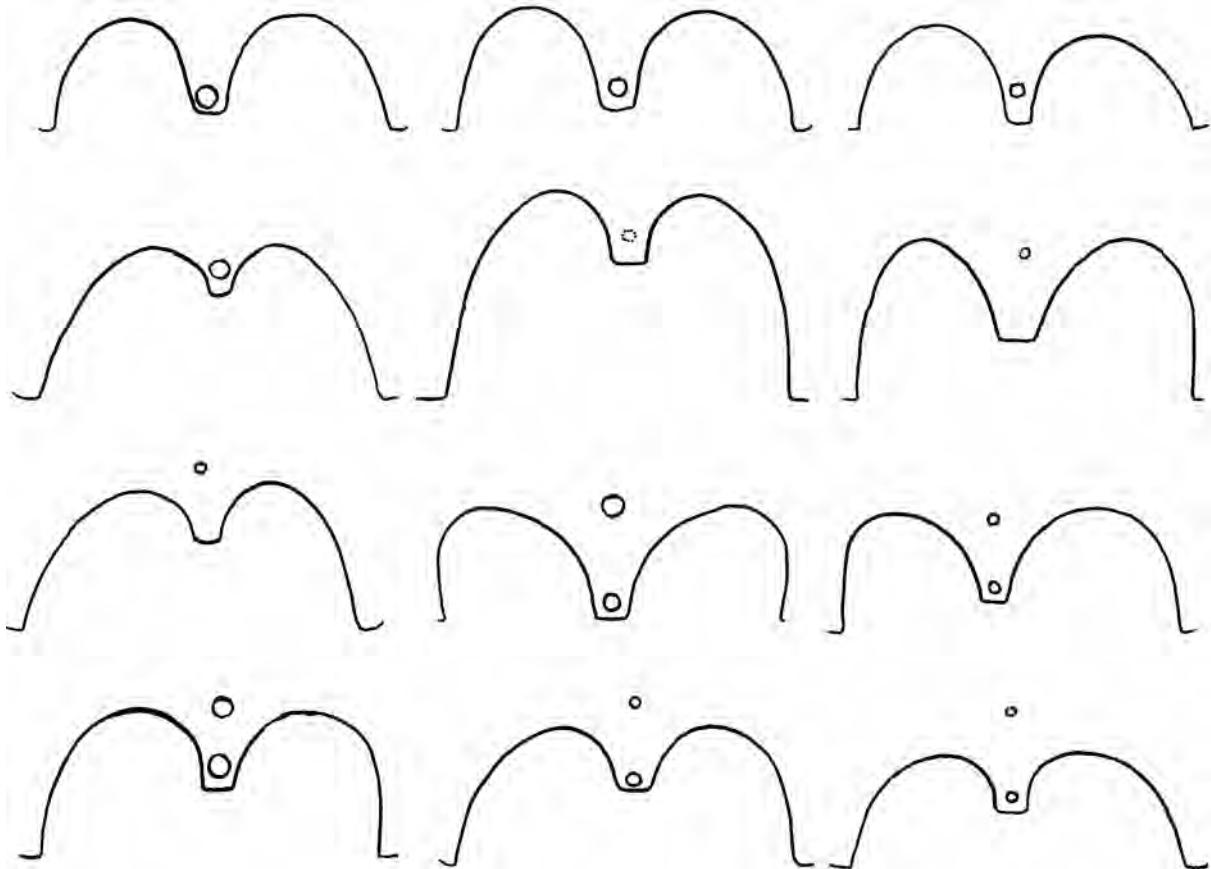
had published it as an indeterminate fragment<sup>5</sup>, mistakenly presenting it as a horizontal piece, which had prevented it from being correctly identified until now (fig. 1).

The fragment is identified as the nose-guard of a helmet, with thickened edges, the edge of the left side of the opening for the face and the base of a hole in the crown designed for fixing a ring to hold in place the helmet's removable decorative *lophos*<sup>6</sup> (figs 2; 3a-b). The dimensions of the piece are: 15 mm high from the centre of the base to the beginning of the hole in the crown and 10 mm wide at the base of the nose-guard. The sheet metal is 2 mm thick, while the rim is up to 5 mm thick in places. The metal was cleaned after the piece was discovered, but not treated in any other way to preserve it until now. Nevertheless, it is in good condition, with no corrosion or modern fractures.

The fragment is easily recognisable as part of a Hispano-Chalcidian helmet because this is the only type of helmet from the Iberian Peninsula that has a nose-guard (fig. 4)<sup>7</sup> and a structure to hold the crest<sup>8</sup>. Unfortunately, it has not been possible to find a correlation between the length and breadth of the nose-guard, or between its dimensions and the position of the holes for holding the crest in place. The absence of a correlation between the curvature of the holes for the eyes and the nose-guard would be less unusual, since helmets were made individually by craftsmen and adapting them for the wearer would result in slight variations to a basic pattern (fig. 5). In any case, the dimensions of fragment O.1847 are similar to those of most known examples, although a rim is only documented on some of these pieces.

## ANALYTICAL CHARACTERISATION OF HISPANO-CHALCIDIAN HELMETS

The fact that most of the helmets comprising the Hispano-Chalcidian series are in private hands has restricted the possibility of analysing them using archaeo-metallurgical techniques. So the only data we



**Fig. 5** Variations between the curvature of the holes for the eyes and the nose-guard from different Hispano-Chalcidian helmets. – (Drawing M. Weber, RGZM).

have at present come from the examples found in burial 201 of the La Osera necropolis (Chamartín de la Sierra, prov. Ávila/E), from the old Várez Fisa collection, from the helmet discovered in the »Fuentona« (Muriel de la Fuente, prov. Soria/E), and now the one from Castillejo. The first two are in the Museo Arqueológico Nacional (MAN) in Madrid, the one from Muriel de la Fuente is in the Museo Numantino of Soria and the last one is in the RGZM collection.

The analysis of the Castillejo fragment<sup>9</sup> shows that it was made from a binary bronze (84 % Cu, 15 % Sn), similar to the composition of other examples analysed, like the *calota* of the helmet from Muriel de la Fuente, although the piece in the RGZM collection contains a significant percentage of lead (1%), but much lower than that in the *lophos* supports, which is over 8 % in the exemplar from La Osera and 11% in that from Muriel de la Fuente (tab. 1).

The XRF analyses carried out by the project »Arqueometalurgia de la Península Ibérica«<sup>10</sup> have confirmed the use of binary bronzes for making the laminate elements such as the crown, lateral supports and hinges (Muriel de la Fuente), a detail also confirmed by an analysis of the piece from Los Canónigos (Arcas de Villar, prov. Cuenca/E)<sup>11</sup>, and the ternary bronzes for the *lophos* support (Muriel de la Fuente and La Osera<sup>12</sup>). In the helmet from Muriel de la Fuente a similar composition is observed in the five laminate areas sampled, corresponding to the crown and the neck-guard, the side support for holding adornments in place and the hinge for fixing the cheek piece, with an average value of 85.3 % Cu, 12.7 % Sn, 0.65 % As and 0.28 % Pb. It is therefore a binary bronze. The *lophos* support is, however, made from a different alloy, a ternary bronze with 73.6 % Cu, 13.5 % Sn and 11.3 % Pb.

	description	analytic id.	Cu	Sn	Pb	Fe	As	Ni	Sb	Zn	Ag	Au	others
<i>El Castillejo</i>													
RGZM O.18477	nose protection		83.8	14.9	0.7	nd	0.1	0.07	nd	nd	nd	nd	nd
<i>La Osera burial 201</i>													
MAN 1986/81/2/201/14	<i>lophos</i>	PA221200	58.10	29.00	8.86	3.66	0.31	nd	nd	nd	nd	nd	nd
MAN 1986/81/2/201/14	<i>calota</i>	PA22100C	51.10	26.60	6.77	15.08	0.36	nd	nd	nd	nd	nd	nd
MAN 1986/81/2/201/14	<i>calota</i>	PA22100d	60.00	24.20	4.62	10.52	0.57	nd	nd	nd	nd	nd	nd
MAN 1986/81/2/201/18	<i>calota</i>	PA22102	75.60	5.30	18.30	0.21	nd	nd	0.52	nd	nd	nd	nd
MAN 1986/81/2/201/6	ring	PA22127p	80.90	16.60	1.04	0.41	0.89	0.08	nd	nd	nd	nd	nd
<i>Muriel de la Fuente</i>													
Museo Numantino 77/6	<i>calota</i>	PA22128A	84.65	14.17	0.42	nd	0.76	nd	nd	nd	nd	nd	nd
Museo Numantino 77/6	<i>lophos</i>	PA22128B	73.57	13.54	11.13	1.77	nd	nd	nd	nd	nd	nd	nd
Museo Numantino 77/6	neck-guard	PA22128C	85.46	13.32	0.31	0.10	0.80	nd	nd	nd	nd	nd	nd
Museo Numantino 77/6	decoration element	PA22128D	83.61	11.63	0.20	3.90	0.66	nd	nd	nd	nd	nd	nd
Museo Numantino 77/6	hinge	PA22128E	86.48	12.35	0.28	0.46	0.43	nd	nd	nd	nd	nd	nd
Museo Numantino 77/6	sheet	PA22128F	86.13	11.81	0.19	1.27	0.59	nd	nd	nd	nd	nd	nd
<i>Vázquez Fisa</i>													
MAN 1999/99/168	left cheek guard	PA22085	64.50	nd	0.61	0.09	nd	0.05	nd	34.60	nd	nd	Cr
MAN 1999/99/168	neck-guard	PA22085B	66.40	nd	0.31	nd	0.04	nd	nd	33.20	nd	nd	Cr
MAN 1999/99/168	<i>lophos</i>	PA22085C	63.80	0.88	2.74	0.39	nd	0.53	nd	31.50	nd	nd	Cr
MAN 1999/99/168	ring	PA22085D	20.80	5.15	59.60	1.74	nd	nd	1.50	nd	nd	nd	Cr
MAN 1999/99/168	<i>calota</i>	PA22085E	61.70	nd	0.75	nd	0.03	nd	nd	29.90	nd	nd	Cr

**Tab. 1** Composition analysis on Hispano-Chalcidian helmets.

The helmet in the MAN, which belongs to the old Vález Fisa collection, is different, since it needs to be thought of either as a piece that has been much altered by restoring and reassembling parts of it with metal resins, or as a forgery or modern copy of an original that has not been identified. It is made from a brass alloy, with more than 30 % Zn. Taking into account that the zinc in patina suffers a process of loss, the values obtained should be assumed to be lower than those of the original alloy used. Therefore, a modern alloy of around 35 or 40 % Zn has been used. The only part that is different is the ring, which is in fact a leaded bronze with a high lead content. In this case the presence of a certain amount of zinc could be explained by contamination in the area of analysis because this was carried out on part of it that was close to the rest of the helmet. The presence of chrome is also notable, which must have been used to give the piece its patina.

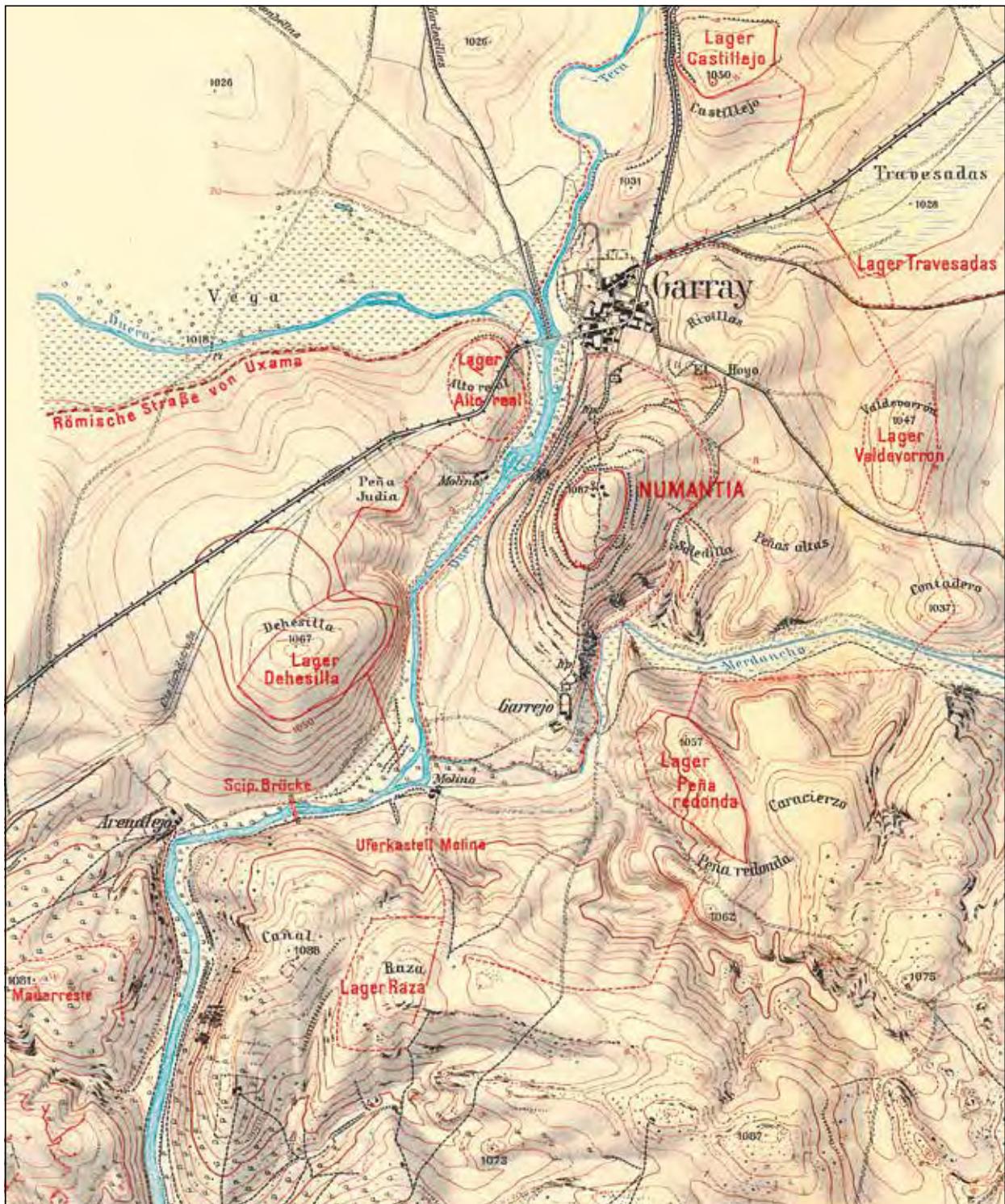
## CONTEXT

The Castillejo hill is situated approx. 1 km to the north of La Muela de Garray, the site of the ancient city of Numantia, on a broad plain irrigated by the river Duero and numerous streams that favoured the constant presence of settlements before Romanisation<sup>13</sup>. It is a small hill with a flat summit (1043 m) that has a gentle slope to the North, which becomes pronounced on the West and South<sup>14</sup>, making it an isolated and easily defensible position<sup>15</sup> (**fig. 6**).

A. Schulten was the first to carry out archaeological excavation on the hillock, as part of his work to identify the various camps cited by the sources in relation to Scipio's siege of Numantia<sup>16</sup>. In the course of his excavations at Castillejo, A. Schulten identified the remains of three Roman camps and his interpretation is currently accepted as valid. According to him the most recent one, located in, was that of Publius Cornelius Scipio Aemilianus<sup>17</sup>. A double wall was built around the city from the Castillejo and Peña Redonda camps, linking them, five others and two castles used in the siege of the city of Numantia<sup>18</sup>. In addition, A. Schulten identified two other camps in Castillejo, apart from the one attributed to Scipio (134-133 BC). These were superimposed on each other and on the basis of historical criteria a chronology was proposed for each of them: the oldest<sup>19</sup> was attributed to the consul Claudius Marcellus (152-151 BC), while the one after it<sup>20</sup> was identified as with the camp of Quintus Pompeius (141-140 BC)<sup>21</sup>. However, this sequence is open to dispute, and is considered unsatisfactory in the light of the material record preserved. In this respect, F. Morales Hernández<sup>22</sup> points out that both the numismatic finds studied by H. J. Hildebrandt<sup>23</sup> and the lamps studied by M. V. Romero Carnicer<sup>24</sup> relate to Scipio's occupation, which suggests that the earlier Roman occupations »left barely any remains apart from the buildings themselves«<sup>25</sup>.

However, A. Schulten revealed the abundant presence of »prehistoric« pottery, representing both »the Neolithic layer and the Hallstatt layer«, and Celtiberian finds (»Iberian« in Schulten's terminology) that he associated with »a later Iberian colony«, although the occurrence of indigenous pottery would also have been recorded in the camps<sup>26</sup>.

More recent studies, like those of F. Morales Hernández<sup>27</sup> in »Carta Arqueológica de la Altiplanicie Soriana«, and J. J. Fernández Moreno<sup>28</sup> on the prehistoric finds from La Muela de Garray, have provided information about periods of pre-Roman occupation in Castillejo, confirming a prehistoric phase relating to the Late Chalcolithic and Early Bronze Age<sup>29</sup>, and a protohistoric phase, relating to an Early Iron Age occupation<sup>30</sup>, which in this part of the Meseta would have developed between the 8<sup>th</sup> and early 4<sup>th</sup> centuries cal BC<sup>31</sup>. With regard to subsequent Celtiberian occupation, the scarce material recovered in surveys, limited to a few sherds of wheel-turned pottery that can be identified culturally with Arevaci productions<sup>32</sup>, includes an outstanding bowl with raised foot that has its closest parallels in Late Celtiberian contexts. This has led F. Morales Hernández to assume that Castillejo was occupied in the first half of the 1<sup>st</sup> century BC by a



**Fig. 6** Numantia and Scipio's siege camps. – (After Schulten 1914, map 5).

community related with the »later Iberian colony« referred to by A. Schulten<sup>33</sup>. Another singular find is that of a hand-made ceramic cup that F. Morales Hernández<sup>34</sup> attributed to the Early Iron Age, proposing a chronology of the first half or mid-5<sup>th</sup> century BC, although in another work he identified the decorative motifs as zoomorphic figures seen from above and proposed a mid-1<sup>st</sup> century chronology<sup>35</sup>, consistent

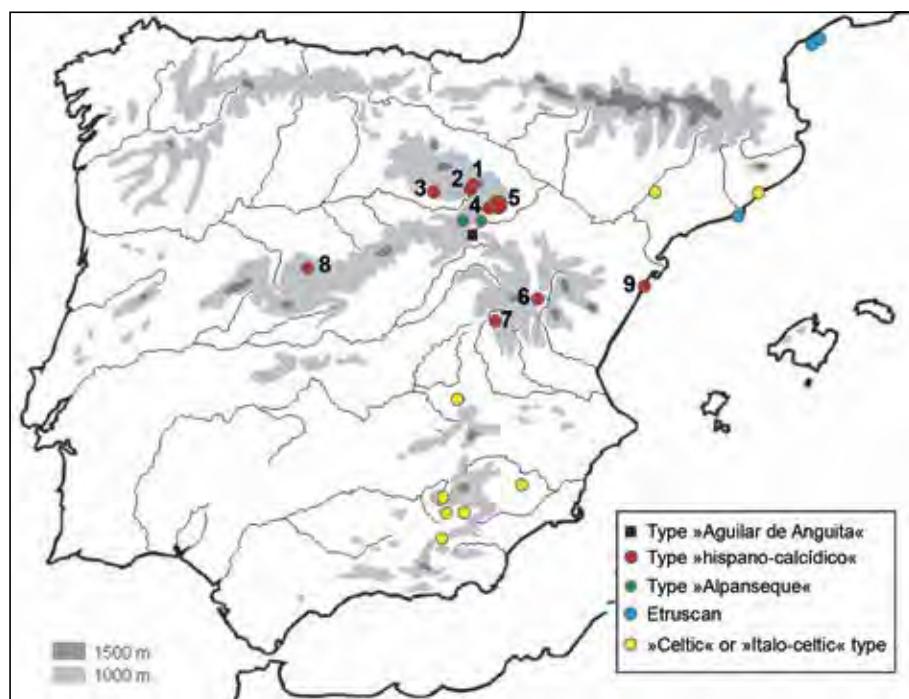


**Fig. 7** Disc cuirass  
from Castillejo. – (Photo  
R. Müller, RGZM). –  
Scale 1:2.

with the type of representations characteristic of Arevaci-Vaccean iconography dated to between the 2<sup>nd</sup> century BC and 1<sup>st</sup> century AD<sup>36</sup>.

Amongst the artefacts published by A. Schulten as coming from Castillejo it is worth mentioning some outstanding Celtiberian pieces, such as a bull's head belonging to the rear finial of a Celtiberian *simpulum*<sup>37</sup>, similar to Martín Valls' type I<sup>38</sup>, also of late chronology, since they would still be in use at the beginning of the 1<sup>st</sup> century AD<sup>39</sup>, as well as others whose pre-Roman chronology seems beyond doubt, such as a ribbed disc cuirass (see below), classified as *Nicht bestimmbares* (indeterminate), and the fragment of a helmet that we are looking at here.

The disc cuirass comes from room P of the camp attributed to Marcellus<sup>40</sup> (RGZM inv. no. O.18438; **fig. 7**)<sup>41</sup>. The main problem with this disc is the late chronology ascribed to it (2<sup>nd</sup> century BC), contrary to the general chronology of peninsular and Mediterranean disc cuirasses, which had usually disappeared by the end of the 4<sup>th</sup> century BC<sup>42</sup>. Furthermore, its only parallel (recovered from Samnite burial 1 at the necropolis of loc. Troccola de Pietrabbondante in Isernia, prov. Molise/I) is dated to the 5<sup>th</sup> century BC<sup>43</sup>, and suggests that the piece in question is an import from the Italic Peninsula<sup>44</sup>. This would allow this exemplar to be seen as evidence of interaction between the Celtiberian and the southern Italic world, which fits fairly well with



**Fig. 8** The distribution of Hispano-Chalcidian helmets and other Iron Age models dated between the 5<sup>th</sup> and 3<sup>rd</sup> centuries BC (excluding Montefortino helmets). – **1** Castillejo (prov. Soria). – **2** Numancia (prov. Soria). – **3** Muriel de la Fuente (prov. Soria). – **4** Deza (prov. Soria). – **5** Aranda de Moncayo (prov. Zaragoza). – **6** El Alto Chacón (prov. Teruel). – **7** Los Canónigos (prov. Cuenca). – **8** La Osera (prov. Ávila). – **9** Piedras de la Barbada (prov. Castellón). – (Map R. Graells i Fabregat).



**Fig. 9** Various Hispano-Chalcidian helmets: **1-3** Aranda de Moncayo (1. 3 photo H. Born; 2 after Graells/Lorrio/Quesada 2014, fig. 40). – **4** MAN Madrid, Várez Fisa collection (Photo F. Quesada).

what is observed for the creation of Hispano-Chalcidian helmets (see below). In any case, this disc cuirass certainly allows the consistent presence of pre-Roman artefacts in Castillejo to be proposed.

The fragment of a helmet, in keeping with what has been said so far, conforms to pre-Roman finds and falls within the usual area of distribution of this type of helmet (see below). Both aspects emphasise its Celtiberian character, although the chronology of the piece and, as we shall see, that of the type of helmet,

should be reconsidered to take into account the deficiencies of the find's historic and archaeological context.

## HISPANO-CHALCIDIAN HELMETS AND THEIR CHRONOLOGY

The group of Hispano-Chalcidian helmets relates to a type that can be characterised as exclusively Celtiberian. Their distribution is concentrated mainly in the Celtiberian area, with few exceptions outside the culture's heartland (fig. 8)<sup>45</sup>. The combination takes its name from where it was produced (ancient Hispania) and the model that inspired its shape (Chalcidian helmets) adopting the formula used for the Italic versions of Chalcidian helmets (the so-called Italic-Chalcidian helmets). The current catalogue consists of 33 examples (counting the one from Castillejo), a common denominator being considerable morphological variation amongst them, which has been interpreted as the result of being made individually for each wearer (fig. 9)<sup>46</sup>. In any case, they all have the same predetermined design: a *calota* with nose-guard, neck-guard and holes for the ears and eyes; articulated cheek pieces; an edge reinforced with strips fixed to the front; and a complex structure of decoration on the *calota* consisting of lateral appliques to hold removable elements and the vertical *lophos* (with pivot and two rings).

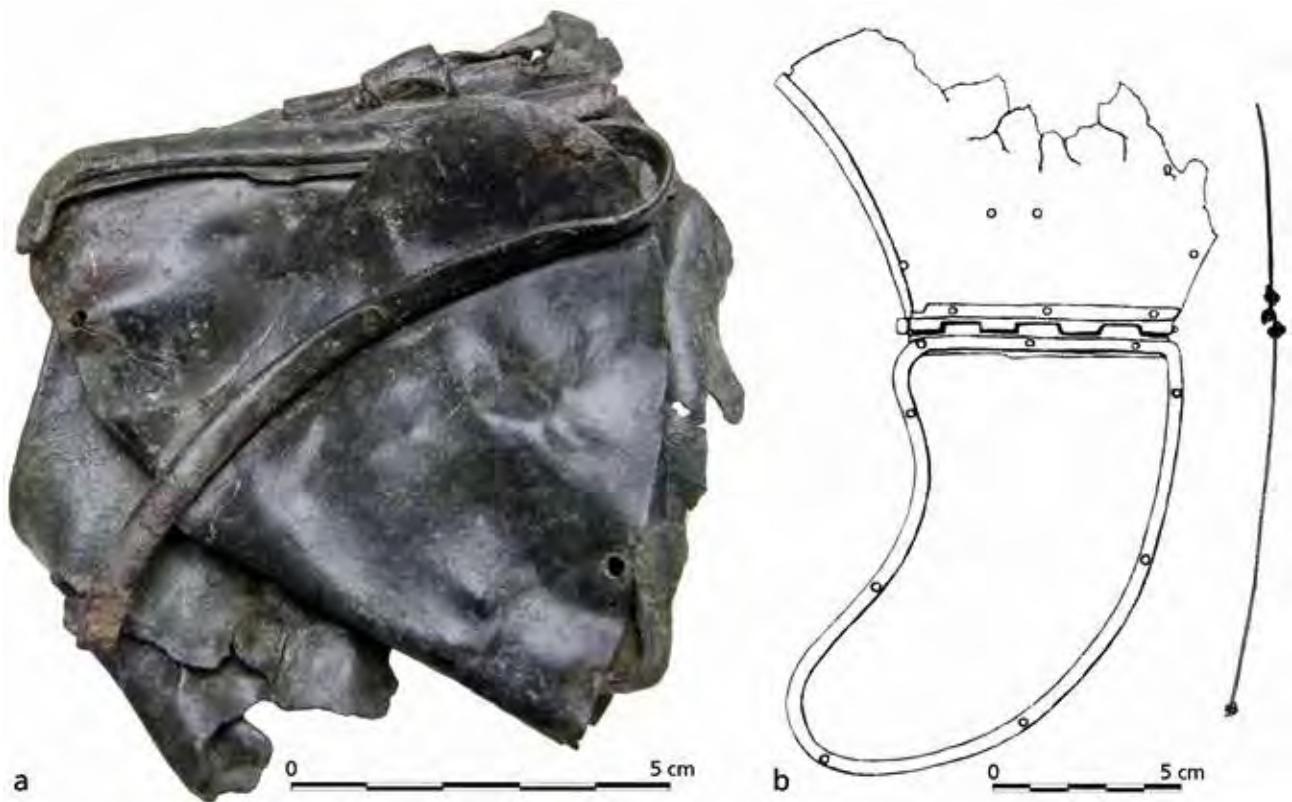
The Italic influences that shaped helmets of this type are evident and crucial for interpreting the chronology of the type. Thus, the nose-guard is related with the series of Chalcidian helmets, from which it also takes the long neck-guard. The curve of the crown, the application of strips for reinforcement and the articulation of cheek pieces would seem to display a southern Italic influence, while the pivot seems to be Apulian. This combination of adoptions situates the prototypes between the 5<sup>th</sup> and 4<sup>th</sup> centuries BC, a chronology that fits with that of Hispanic mercenary presence in the south of Italy, suggesting that this dynamic is the origin of this model of helmet.

It now remains to discuss the chronology of the group, which is certain for its initial phase, since we have reliable archaeological contexts, and problematic for the time when they disappeared. If we look at the older examples of the Hispano-Chalcidian helmet, including those that came from the necropolis of Los Canónigos, burial 3<sup>47</sup>, Aranda de Moncayo, tomb 2 (prov. Zaragoza/E)<sup>48</sup> and La Osera, burial 201<sup>49</sup>, and the one recovered from water in Muriel de la Fuente<sup>50</sup>, we see that they can be dated to the second half of the 4<sup>th</sup> century BC, a phase when Hispanic mercenaries had been completely integrated into international circuits and had fought in Mediterranean conflicts for almost two centuries, during which time this type of armour would have taken on its distinctive form.

At the other end, it has been suggested that the final chronology for the group dates to the 2<sup>nd</sup> century BC on the basis of two singular finds that are not without problems: the cheek piece from the settlement of Alto Chacón (prov. Teruel/E)<sup>51</sup> and the fragment of a cheek piece and a helmet from burial 39 of Numantia<sup>52</sup>, to which we could now also add the fragment from Castillejo, if only on the basis of the find place.

The characteristics of the exemplars from Alto Chacón and Numantia allow them to be clearly differentiated from other Hispano-Chalcidian helmets, although the fragmentary nature of both pieces prevents us having a complete picture of their morphology and the extent of their modifications:

- The Alto Chacón cheek piece clearly differs from the other helmets of the series in terms of its shape, decoration and finish, so it would seem to be a marginal example, a development of the main series (dated between the end of the 4<sup>th</sup> and mid-3<sup>rd</sup> century BC), and in any case it appeared as material to be recycled.
- The piece from Numantia (fig. 10a-b) comes from a closed funerary context dated from the topographic position of the burial within the necropolis and not on the basis of typological criteria. Because it was



**Fig. 10** Fragment of the helmet from grave 39 of Numantia (a) and its reconstruction (b). – (a photo F. Quesada; b after Jimeno et al. 2004, fig. 51).

ascribed to phase II of the cemetery<sup>53</sup>, the excavators proposed a chronology between an indeterminate point in the 2<sup>nd</sup> century and 133 BC. However, the helmet could be older, thus fitting more closely with the rest of the series<sup>54</sup>, although some of the elements of the Numantine helmet can already be related with the later evolution of the model<sup>55</sup>.

In both cases the contexts represent a *terminus ante quem* and their morphologies are not sufficient, given their fragmentary nature, to establish fixed terms, although both pieces might be interpreted as examples of the final evolution of the model. The similarity between the nose-guard from Castillejo and that of other helmets dated between the 4<sup>th</sup> and 3<sup>rd</sup> centuries BC does not mean that the piece could not be later, since we do not know the characteristics of the frontal part of the most developed helmets (examples from Numantia and Alto Chacón). However, it is reasonable to assume that modifications to cheek pieces, hinges and appliquéd elements might also have affected the nose-guard area and therefore that its morphology could be different from that of the majority and the fragment from Castillejo.

It seems probable that the Hispano-Chalcidian helmets finally fell into disuse or disappeared, at least as far as their standardised morphology was concerned, at an earlier date which, in the absence of greater precision, we will put at the end of the 3<sup>rd</sup> century BC. This shorter time frame (from the middle of the 4<sup>th</sup> to the end of the 3<sup>rd</sup> century BC) allows us to see the life span of these helmets with greater consistency: preceded by helmets of the Alpanseque-Almaluez type and followed by the Montefortino, without rejecting the possibility of a final evolution of the model incorporating modifications that may have affected essential parts of the type, such as the serpentine adornments, which could have disappeared, changing the position of the lateral mounts that held adornments, modifying the structure of the hinges used to fix the cheek pieces and, perhaps, changing the shape of the nose-guards.

## CONCLUSIONS

The chronology and characteristics of the fragment analysed here require two parallel lines of reflection. On one hand, the Hispano-Chalcidian helmets and, on the other, the Castillejo site. As we have seen, the fragment studied here completes the distribution map, reinforcing the Celtiberian character of these productions, while their metallurgical analysis contributes to our understanding of the nature of Hispano-Chalcidian helmets and control over the metal in the manufacturing process, providing evidence of the technical skill of the metal workers who made Celtiberian armour, already discussed in other studies<sup>56</sup>.

Unfortunately, the exact context in which this fragment was recovered is unknown, and this once again leaves open to doubt certain aspects of chronology concerning Hispano-Chalcidian helmets. These require a discussion on the evolution of the model and its late chronology (3<sup>rd</sup> century BC) proposed for the final examples of the series. The presence in Castillejo of other elements that can be clearly ascribed to pre-Roman times implies that what A. Schulten excavated could have been much more complex than a succession of Roman military camps, for it could indicate that there was an additional Celtiberian phase that can contribute to our understanding of how Roman territory was organised. Thus the context has conditioned the way the finds published by A. Schulten have been interpreted, at least in the case of metal items such as the pectoral or the piece analysed here, since they have traditionally been studied as dating to the same time as Scipio's camp, interpreting them in exclusively late-Republican terms.

We hope that this study will contribute to investigate this site from a new perspective that takes into account the archaeological evidence detected in the surveys and will involve reviewing the data from Schulten's old excavations in the Numantine area (held in the RGZM) in order to acquire a transversal understanding of the context of Numantia over the course of time.

Translation: Verity Peterson

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## Notes

- 1) The preliminary comprehensive study of the category of Hispano-Chalcidian helmets was decisive for its identification (Graells/Lorrio/Quesada 2014).
- 2) Between 1905 and 1912 A. Schulten conducted extensive excavations around the site of the Celtiberian city of Numantia. Most of the locations were Roman military camps, which have become fundamental to our understanding of the Republican army.
- 3) Schulten 1927, 170.
- 4) Morales Hernández 1995, 127-146. – Fernández Moreno 1997, 116f.
- 5) Schulten 1927, pl. 45, 37.
- 6) Graells/Lorrio/Quesada 2014, 115-124.
- 7) Graells/Lorrio/Quesada 2014, 96-108. – This detail reflects an anomaly in helmets made in the Peninsular, which had traditionally tended to leave the wearer's vision unobstructed. This is also true for the series of helmets produced in the Mediterranean area, which, from the 5<sup>th</sup> century BC onwards progressively eliminated nose-guards. Only Hispano-Chalcidian exemplars still had nose-guards in the 4<sup>th</sup> century BC. This argument has been repeatedly used to relate the oldest examples of this type of helmet with a development during the long-distance mercenary expeditions in the south of the Italian Peninsula, where other fundamental elements of the series such as the articulated cheek pieces and decorative crests attached to the crown (*lophoi*) would have been incorporated.

- 8) These crests were structured on the basis of three fixing points aligned on the crown, following the axis marked by the nose-guard and projecting towards the nape of the neck. The system consisted of a central pivot with a two-pronged fork that acted as a guide for an organic structure that was stretched (Graells/Lorrio/Quesada 2014, fig. 149) and held firmly in place with two points of support consisting of rings (Graells/Lorrio/Quesada 2014, 118-120), one situated at the nape of the neck (Graells/Lorrio/Quesada 2014, fig. 152) and another above the nose-guard, as in the fragment considered here (Graells/Lorrio/Quesada 2014, fig. 151).
- 9) Micro X-ray fluorescence using the µ-RFA method carried out by Dr. F. Ströbele (RGZM, Archäometrielabor). – Equipment: Eagle III; Rhodium tube with max. 40kV, 1mA, Oxford Instruments; Si(Li) detector, EDAX, resolution 148eV for MnK $\alpha$ ; camera test: 75 × 75 × 135 cm; X-ray optics: monocapillary with 0.3 mm focal spot (corresponding analysis area); EDAX analysis, nitrogen-cooled. Measurement parameters: atmospheric air, 40kV voltage tube, tube current 125µA, measurement time 300s, conformation time 35s, filter Ti 25.
- 10) X-ray fluorescence using the spectrometer belonging to the MAN: INNOV-X Alpha equipped with X-ray tubes, silver anode, operating conditions: 35kV, 2 µA. The acquisition times were fixed at 40s and the quantitative values were calculated from a calibration validated with certified patterns (our thanks to Dres. Ignacio Montero and Carolina Gutiérrez for the information).
- 11) The piece, a fragment of metal sheet, was analysed by the laboratory services of the Instituto del Patrimonio Cultural de España using a scanning electronic microscope coupled with microanalysis by energy dispersive X-ray spectroscopy, giving a composition of 86.3 % Cu and 12.1 % Sn, as well as evidence of corrosion (our thanks to Ms Concepción Rodríguez Ruza, director of Museo de Cuenca at the time we carried out the study on Hispano-Chalcidian helmets, for allowing us to use the unpublished report).
- 12) The data indicated that the *lophos* support (PA22100) is a ternary bronze with little lead, the other analyses being more problematic. On one hand, a fragment of sheet metal soldered by oxidation to the support (PA22102) proved to be of a different leaded bronze alloy with a high proportion of lead, and also contained antimony (Sb), unlike the support, which contained arsenic, a very divergent model of impurities for the same piece, so it could be a fragment of something else. The other pieces of metal plate (PA22100c and d) did belong to the crown, although they showed a high level of iron, probably as a result of oxidation of the rivets that were used to attach the support. Rather different is a button that forms part of the system for anchoring the rings to hold the helmet's *lophos* (crest), which seems to have been filled with lead.
- 13) Fernández Moreno 1997, 15.
- 14) Schulten 1927, 167 pl. 12, 1-2. – Fernández Moreno 1997, 127. – Dobson 2008, 235-239 figs 125-128.
- 15) Fernández Moreno 1997, 111. 117.
- 16) Some of the conclusions of the Schulten's studies are still worthy of recognition, and many of his theories remain valid, although some important qualifications need to be made and some of his interpretations re-evaluated. On this subject, see Schulten 1927, 167-215; 2004, 122-127. – Morales Hernández 2000; 2002. – Jimeno 2002. – Luik 2002, 10-12.
- 17) Schulten 1927, 175-181; 2004, 124-127. – Morales Hernández 2000, 229f.; 2002, 285. – Dobson 2008, 266-294. – Luik 2009, 54 fig. 7.
- 18) Schulten 1927, 18-25; 2004, 113-138. – Morales Hernández 2000; 2002; 2004. – Jimeno 2002, 166-168; 2004, 242. – Jimeno/de la Torre 2005, 164. – Dobson 2008, 235-405.
- 19) Schulten 1927, 175-181; 2004, 123. – Dobson 2008, 251-258.
- 20) Schulten 1927, 181-188; 2004, 123. – Dobson 2008, 259-266.
- 21) Schulten 1927, 171f. pl. 23. – Dobson 2008, 235-294. 387-389 fig. 127.
- 22) Morales Hernández 1995, 134.
- 23) Hildebrandt 1979, 245-247. 266. 269-271.
- 24) Romero Carnicero 1990.
- 25) Ibidem 271.
- 26) »Die vorrömischen Ansiedlungen. Zahlreiche Stücke der für die jüngere Neolithik charakteristischen Scherben mit eingravierten geometrischen Mustern lehren, daß Castillejo wie die ganze Gegend von Numantia zuerst von einer neolithischen Bevölkerung bewohnt worden ist [...]. Nicht minder ist vertreten die von den Kelten herrührende Hallstattware, grauschwarze Töpfe mit Nageleindrücken. An einer Stelle im NW wurde unter römischen Pflaster in einer Koch- oder Wohngrube ein ganzes Nest solcher Gefäße gefunden. Auf die älteren Siedler folgten dann, wie aus Resten iberischer Keramik zu entnehmen ist, die Iberer. Besonders wichtig ist das reich bemalte archaische Stück [...], welches sich scharf von der späteren, in den Lagern vorkommenden und ihnen gleichzeitigen, unbemalten oder nur mit einfachen Ornamenten bemalten Gefäßen unterscheidet. Aus dieser Epoche stammen auch die an mehreren Stellen gefundenen Lehmziegel und Webstuhlgewichte aus Thon, die beide massenhaft in Numantia vorkommen« (Schulten 2004, 122).
- 27) Morales Hernández 1995, 128-146.
- 28) Fernández Moreno 1997.
- 29) The remains of a partially excavated circular structure was documented at the base level of the Castillejo hill; associated with the structure are lithic and ceramic finds closely related with those of La Muela de Garray, and cover the period from the Late Chalcolithic to the Early Bronze Age (Fernández Moreno 1997, 113).
- 30) Morales Hernández 1995, 127-131 figs 49-51. – Fernández Moreno 1997, 116f. – Fernández Moreno's observations (1997, 117) on analysing the Castillejo wall reproduced by A. Schulten (1927, pl. 21) is interesting. He points out that it is quite different from those identified in the Numantine camps, suggesting that it could be older, perhaps dating to the beginning of the Iron Age.
- 31) Romero/Lorrio 2011.
- 32) Morales Hernández 1995, 131f. fig. 52, 34-36.
- 33) Ibidem 134.
- 34) Ibidem 130f. fig. 51.
- 35) Morales/Sanz 1994.
- 36) Romero Carnicero 2010, 515 fig. 32.

- 37) Schulten 1927, 170. 214.
- 38) Martín Valls 1990, 150.
- 39) Lorrio/Olivares 2004, 104-106. 108.
- 40) Schulten 1927, 257-259 no. 19 pls 44, 19; 50. – Luik 2002, 189 no. C41 fig. 78 pl. 4, 1.
- 41) Graells 2012, 228-231 no. 54 figs 113-115.
- 42) Ibidem 101-119.
- 43) Tomedi 2000, 94 nos 399-400 pl. 144.
- 44) This is in line with the characterisation of the metal, which is quite different from the average proportions of other Celtiberian disc cuirasses (Graells 2012, 121).
- 45) One was recovered from a shipwreck in the mouth of the río Seco (Benicarló, prov. Castellón/E) (Graells/Lorrio/Quesada 2014, 73f.) and the other came to light in burial 3 of the necropolis at Los Canónigos (Graells/Lorrio/Quesada 2014, 63-72; Quesada/Valero 2011-2012). The first find has been associated with a possible staging point for recruiting mercenaries from the Iberian Peninsula to fight in the central Mediterranean (Graells 2014, 48. 194f.) that would have marked the point where a route from the Celtiberian area reached the sea. However, we shall not consider the second case further at this point, as it relates to a peripheral Celtiberian area, subject to abundant influences from the Iberian territories.
- 46) Graells 2014, 192. – Graells/Lorrio/Quesada 2014, 161. 259.
- 47) Graells/Lorrio/Quesada 2014, 63-72 cat. no. 28.
- 48) Ibidem 57-59 cat. no. 24.
- 49) Ibidem 8-11 cat. no. 1.
- 50) Ibidem 11-15 cat. no. 2.
- 51) Ibidem 18-20 cat. no. 4.
- 52) Ibidem 15-18 cat. no. 3.
- 53) Jimeno et al. 2004.
- 54) And with the chronology of the associated fibulae, the only significant elements other than the helmet in the burial's grave goods. They can be dated to the 3<sup>rd</sup> century BC, although it is true that they were still current in the 2<sup>nd</sup> century BC.
- 55) Graells/Lorrio/Quesada 2014, 170.
- 56) Graells 2012, 124-127.

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### Zusammenfassung / Summary / Résumé / Resumen

#### Ein neues Fragment eines hispano-chalkidischen Helmes aus Castillejo (prov. Soria) im RGZM

Dieser Artikel beschäftigt sich mit einem neuen Fragment eines hispano-chalkidischen Helmes. Es wurde zwischen den Funden, die A. Schulten in der Umgebung von Numantia ausgegraben hatte, entdeckt. Die Typologie und der Fundort tragen dazu bei, den Bestand dieses Helmtyps auf nun 33 Exemplare zu erhöhen und deren keltiberischen Charakter zu unterstreichen. Gleichzeitig ist nun eine Diskussion über die Metallzusammensetzung der Gruppe möglich sowie einige Überlegungen zur letzten Stufe ihrer Entwicklung am Ende des 3. Jahrhunderts v. Chr.

#### A New Fragment of a Hispano-Chalcidian Helmet from Castillejo (prov. Soria) in the RGZM

This paper deals with a new fragment of a Hispano-Chalcidian helmet recovered amongst the finds excavated by A. Schulten in the surroundings of Numantia. The typology and find spot contribute to increase the catalogue of this type of helmets to 33 examples, and reinforce their Celtiberian character. Simultaneously, it allows a discussion on the metallography of the group, and some reflections on the last step of its evolution at the end of the 3<sup>rd</sup> century BC.

#### Un nouveau fragment de casque hispano-chalcidique en provenance de Castillejo (prov. Soria) au RGZM

Cet article traite d'un nouveau fragment de casque hispano-chalcidique. Il a été découvert au milieu d'un lot d'objets en provenance des fouilles des environs de Numance menées par A. Schulten. Le lieu de découverte comme la typologie permettent d'implémenter le nombre de casques de ce type à 33, et renforce le caractère celtibère de ce type. Dans le même temps, une discussion métallographique de ce groupe et ses évolutions lors de la dernière phase du 3<sup>e</sup> siècle apr. J.-C. sont ainsi relancées.

Traduction: L. Bernard

#### Un nuevo fragmento de casco hispano-calcídico de Castillejo (prov. Soria) en el RGZM

Este artículo trata de un nuevo fragmento de casco hispano-calcídico recuperado entre los materiales excavados por A. Schulten en el entorno de Numancia. La tipología y lugar del hallazgo contribuyen a aumentar el catálogo de este tipo de cascós hasta 33 ejemplares, y a reforzar su carácter celtíbero. Al mismo tiempo, permite un debate sobre la metalografía del grupo, y algunas reflexiones sobre el último episodio de su evolución, al final del siglo III a.C.

### Schlüsselwörter / Keywords / Mots clés / Palabras clave

Spanien / Iberische Halbinsel / Numantia / Keltiberer / hispano-chalkidischer Helm / Toreutik

Spain / Iberian Peninsula / Numantia / Celtiberians / Hispano-Chalcidian helmet / toreutics

Espagne / péninsule Ibérique / Numance / Celtibères / casque hispano-chalcidique / toreutique

España / Península Ibérica / Numancia / Celtiberia / casco hispano-calcídico / toréutica

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