

R ald N. Gie, e[†] De, a, e f Phil, h Ce e, f, Phil, h f Scie ce U i e, i f Mi e, a

*Recei ed J 1 2002 † Se d \mathcal{O} e f e i he a h , De a e f Phil h, 831 Helle Hall, U i e i f Mi e a Mi ea i, MN 55455; e- ail: gie e e i.ed . Phil h f Scie ce, 69 (Dece be 2002) $\rightarrow 0$ 0. 0031-8248/2002/6904-0000\$10.00 C , igh 2002 b he Phil h f Scie ce A_{ee} cia i . All igh e e e ed.

I Epistemic Cultures (1999), Ka i K ce i a a g e ha different cie i c eld e hibi different e i e i c l e. She clai ha i high e e g h i c (HEP) i di id al e, a e di laced a e i e i c bjec i fa fe e i e he el e. I lec la bi l g (MB), b c a, i di id al e, fe e i e he e e e e ic, bjec U i g Ed H chi (1995) acc f a iga i ab a da adi i al US Na hi a, a fe e, I a g e ha b h HEP a d MB e hibi f

i, e ic c l , e, i, , e g he ed if he ca , h ha different cie i c eld, e hibi different e i, e ic c l , e, I hi e I ill f c , j e ce , al diffe e ce , he clai , d. I ill, gge, ha hi , a ic la c diaig e ha diecig. The e li ha K e Ceia call a age e b c e . Wha ge_{3} d e, a d he , $de_{1}e$ d 1he ech ical ble ha eed be led achie e he g al f a ea i gf l a d eliable e l.

caieideai, heea, e f he Pe ha K Ce i a' ca i e idea i he e a e f he i di id al a a e i e ic bjec i HEP. O e ca ide if a i di id al e, , e e a, all g fi di id al, d ci g he e-li g k ledge. The l a ailable e i e i cage , he gge, i he e e ded e e i e i elf. I deed, he a ib e he e e i e i elf a ki d f elf-k ledge ge e a ed b he c i al e i g f c e a d ced e, a d b he c i al i f al ha i g f i f a-i b a ici a . E ail ake i sible f a ci e a ici a al a be i all i e a CERN i elf a e he ei i 245a id 24aeah c cc i al. I c c l e lech aled al c i alD khei i a a-i

b

4. CERN and the Palau. I ill li i a e i a fe fea e f H chi', k ha igh ha e, e c $e_{\mu}a_{\mu}$, i HEP e $e_{\mu}i e_{\mu}$. K _ Ceiadiigi, he be ee lab a ie a de ei e Lab a ie a e lace he e e je i e ake lace. I i ji a il e je ie i lab a ie, ha d ce e k ledge. Of c e, i ce e e i e e lab a eO i e , a f he lab a bec e a f he e e i e . Like i e, i H chi e a le e h ld di i g i h be ee he hi a d a iga i . I i a iga i al ac ice, he hip, hap, d ce, he k ledge eeded g ide a hip i p. . B fc e_{1} e_{2} e_{3} f he_{3} hi_{1} a_{2} e a_{3} f he a iga i al b_{2} e_{3} eB h a iga i a de se i e a i a e e a sle, f collective cognition, hich i a secial case f di ib ed c g i i . C llec i e c g i i i bloi , al h gh a a e l li le died il e ece l.Clleciecgii cc, heee e lec bieidiid al k ledge i i i all ha ed i h he he. The, ge he he d ce a c g i i e 🍺 , e bi f k ledge, ha ei he c ld 🝺 d ce al e.

I he ca, e f, adi i al jil age, he l ca i f he hi ela i e a la d a, k he igh a d he l ca i ela i e a differe la d a, k he lef a, e de e i ed b differe e le. Nei he lea, ha he he k , b b h c ica e hei k ledge he, h ca he de e i e he l ca i f he hi HEP e e i e a e e c le a d i l e a e e le, b he c llec i e a e f he k ledge d c i i i ila. Ma differe e le e f differe a, k ba, ed ha a be k l he ele, b if e e e d e, he igh hi g, a he igh i e, he e e i e ca be construction f ll.

H chi, ge ha c llecie c g i be died i j igh beca e i ha fea e f d i i d i d al c g i i . S e f he e fea e a e j h e ed b K ce i a: he di ib i fa h i, e j j h e a d a d he eed f high deg ee f a d c e a i . N e f he e fea e a e e e i i d i d al c g i i . Ne e hele a a e h i r a he c llecie a e f c g i i i HEP e e i e , he e e e e be ha i di i cie ab c che e i e .

H chi, a g e, ha c g i i ca be di, ib ed l a g i di id al, b al, a g i di id al, a d *artifacts.* F, e a le, i dee, i i g he l ca i f he hi ela i e a la d a k, a ail, e, a alidade, a i e ad ed f, e i g. Wi h a alidade, a ail ca de e, i e he ela i e l ca i f he la d a k a acc ac f i hi e deg ee. Tha i a, he c g i i e, e c i g f a ail l a alidade ha a acc ac f e deg ee. Sail al e, i g f hei e e, de e i e he a gle f a la d a k ela i e he hi b b, l d be d i g ell ge i hi e deg ee, i h a eliabili.

i, a ha eh a a ea hig he ha c le h ical f = e, Wea e j, a a ic la kid f h ical, e, e ha ca k ab he hig a dee bec ci l a a e ha ek he eh ig. The ATLAS deec i, ha kid f e.

Wha, he, ld be ag d c g i i e cie i c a cha ac e i e he e 1 f a HEP e e i e ? M gge i ld be *depersonalize* he cha ac e i a i , ha e ld a hi g like Thi e e i e ha h ha . . . Thi e e i e lead he c cl i ha . . . A d h i i h ? Wh d a he c cl i ? The cie i h e fe i al j b i i d he e hi g. Wh el e? The e f lea i ec d hi d ha d hei a h i . The e e i e al f fe e i fe e f he eed d a ecial f e i e ic bjec. I di id al ca *produce* he k ledge i O e i , b he ca i ac le el di a e e c ci 1 c e know he al e 1.

7. Molecular Biology. T_i i g all K_c Ce i a', c_a i f HEP i h lec la bi l g, he a g e ha lec la bi l g lab aie e hibi a -le el c e. The l e le el c i fi di id al e ea che, each ki g hei jec. The jec le el c i f he h le lab a all a aged b a i gle di ec F K Ce i a, he i di id al a e f he l e le el ha i r a he e ical i jica i She i e:

Thi i e ha lec la bilg', i a diffe e ce f e e i e al high e e g h ic. i he lec la bilg laba , he e e i e ai he i e ic, bjec The lab a , e e i e ai , ced e, a d bjec bai hei ide i h gh i di id al. The i di id al cie i i hei i e edia hei ga i i g i ci lei he e h, h all hi g e e (217)

c ce i f di ib ed c g i i I ha e e l ed, a i di id al cie i i g hi ech 10 e i al ead a di ib ed c g i i e e A i di id al ac i g al e, e e e h ldi g a DNA a le, ca d ce he i f a i c ai ed i he a e f ba d a a adi g a h. N ec g i e hi i i f ll de a d he e f di ib ed c g i i .

8. Conclusion. Epistemic Cultures i, a e f ll e, a i e b k. He e I ha e O e, i ed l K Ce i a', clai ab he c g i i e, c e, f d i he e eld. The c g i i e e, f b h eld de e d di i c i e di i b ed c g i i e, e . Ye i b h, I ha e a g ed, e ca e, e e e i e i cage c f he h a c e f he e, e e. We d eed a la e e di i b ed c g i i e age f, le al e e, e hibi i g c ci e e.

e, e hibi i g c ci e, e, . N I d belie e ha he e i, a bjec i e fac f he a e a, hich a f hi ki g ab he e i, e, a e c c c. A K Ce i a he elf ha h , di a a f hi ki g ab k ledge b eak d he a lied e a ea f de cie ce. O ble i, decide hich a f hi ki g ab he e cie ce, ide, he be e all he e ical e ce i e de cie ce. A d hi deci i ca 1 e e ge i hi he cie ce die c i f c i ed di c si f e i ical, die, ch a h e K Ce i a ha ided.

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