

$B_J^*(5732)$
or B^{**}

$I(J^P) = ?(??)$
 I, J, P need confirmation.

OMITTED FROM SUMMARY TABLE

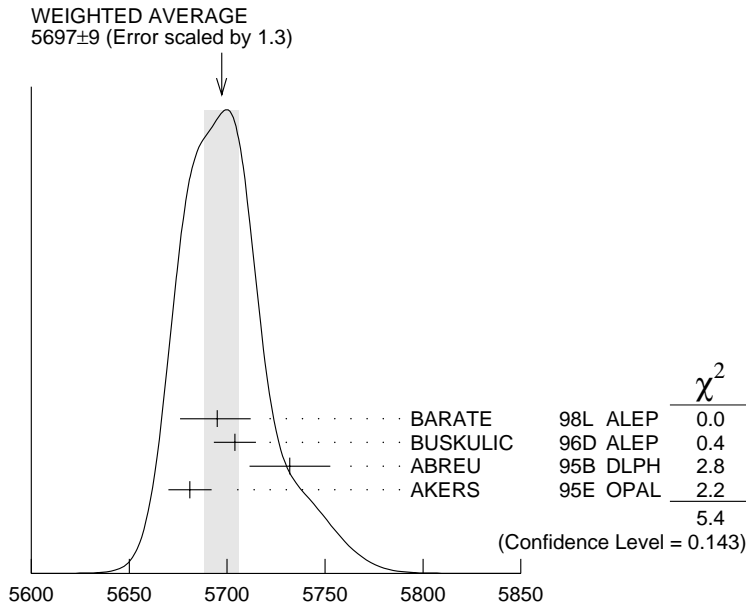
Signal can be interpreted as stemming from several narrow and broad resonances. Needs confirmation.

$B_J^*(5732)$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
5697 ± 9 OUR AVERAGE				Error includes scale factor of 1.3. See the ideogram below.
5695^{+17}_{-19}		¹ BARATE	98L ALEP	$e^+ e^- \rightarrow Z$
$5704 \pm 4 \pm 10$	1944	² BUSKULIC	96D ALEP	$E_{cm}^{ee} = 88-94$ GeV
$5732 \pm 5 \pm 20$	2157	ABREU	95B DLPH	$E_{cm}^{ee} = 88-94$ GeV
5681 ± 11	1738	AKERS	95E OPAL	$E_{cm}^{ee} = 88-94$ GeV

¹ BARATE 98L uses fully reconstructed B mesons to search for B^{**} production in the $B\pi^\pm$ system. In the framework of heavy quark symmetry (HQS), they also measured the mass of B_2^* to be 5739^{+8+6}_{-11-4} GeV/ c^2 and the relative production rate of $B(b \rightarrow B_2^* \rightarrow B^{(*)}\pi)/B(b \rightarrow B_{u,d}) = (31 \pm 9^{+6}_{-5})\%$.

² Using $m_{B\pi} - m_B = 424 \pm 4 \pm 10$ MeV.



$B_J^*(5732)$ mass (MeV)

$B_J^*(5732)$ WIDTH

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
128 ± 18 OUR AVERAGE				
145 ± 28	2157	ABREU	95B DLPH	$E_{cm}^{ee} = 88-94$ GeV
116 ± 24	1738	AKERS	95E OPAL	$E_{cm}^{ee} = 88-94$ GeV

$B_J^*(5732)$ DECAY MODES

<u>Mode</u>	<u>Fraction (Γ_i/Γ)</u>
$\Gamma_1 \quad B^* \pi + B \pi$	dominant

$B_J^*(5732)$ REFERENCES

BARATE	98L PL B425 215	R. Barate+	(ALEPH Collab.)
BUSKULIC	96D ZPHY C69 393	+Casper, De Bonis, Decamp+	(ALEPH Collab.)
ABREU	95B PL B345 598	+	(DELPHI Collab.)
AKERS	95E ZPHY C66 19	+Alexander, Allison+	(OPAL Collab.)