NODE=B179

$\Omega(2012)^-$

$I(J^P) = 0(?^-)$ Status: ***

Seen in $\Xi^0 K^-$ and $\Xi^- K^0_S$ decays with a combined significance of 8.3 standard deviations. NODE=B179

$\Omega(2012)^-$ MASS

NODE=B179M

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
2012.4±0.7±0.6	520	YELTON	18A	BELL	In $\Upsilon(1S)$, $\Upsilon(2S)$, $\Upsilon(3S)$

NODE=B179M

$\Omega(2012)^-$ WIDTH

NODE=B179W

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
$6.4^{+2.5}_{-2.0}\pm1.6$	520	YELTON	18A	BELL	In $\Upsilon(1S)$, $\Upsilon(2S)$, $\Upsilon(3S)$

NODE=B179W

$\Omega(2012)^-$ DECAY MODES

NODE=B179215;NODE=B179

	Mode	Fraction (Γ_i/Γ)	Confidence level	
Γ_1	ΞK			DESIG=8
Γ_2	$(\Xi\pi)K$			DESIG=9
Γ_3	$\Xi^0 K^-$	**DEFINED AS 1**		DESIG=1
Γ_4	$\Xi^- \overline{K}^0$	0.83±0.21		DESIG=3
Γ_5	$\Xi^0 \pi^0 K^-$	<0.30	90%	DESIG=4
Γ_6	$\Xi^0 \pi^- \overline{K}^0$	<0.21	90%	DESIG=5
Γ_7	$\Xi^- \pi^0 \overline{K}^0$	<0.7	90%	DESIG=6
Γ_8	$\Xi^- \pi^+ K^-$	<0.08	90%	DESIG=7

$\Omega(2012)^-$ BRANCHING RATIOS

NODE=B179220

$\Gamma((\Xi\pi)K)/\Gamma(\Xi K)$ — Γ_2/Γ_1

NODE=B179R00
NODE=B179R00

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.119	90	JIA	19	BELL	In $\Upsilon(1S, 2S, 3S)$

$\Gamma(\Xi^0 K^-)/\Gamma(\Xi^- \overline{K}^0)$ — Γ_3/Γ_4

NODE=B179R01
NODE=B179R01

VALUE	DOCUMENT ID		TECN	COMMENT
1.2±0.3	YELTON	18A	BELL	In $\Upsilon(1S, 2S, 3S)$

$\Gamma(\Xi^0 \pi^0 K^-)/\Gamma(\Xi^0 K^-)$ — Γ_5/Γ_3

NODE=B179R05
NODE=B179R05

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.304	90	JIA	19	BELL	In $\Upsilon(1S, 2S, 3S)$

$\Gamma(\Xi^0 \pi^- \overline{K}^0)/\Gamma(\Xi^0 K^-)$ — Γ_6/Γ_3

NODE=B179R04
NODE=B179R04

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.213	90	JIA	19	BELL	In $\Upsilon(1S, 2S, 3S)$

$\Gamma(\Xi^0 \pi^- \overline{K}^0)/\Gamma(\Xi^- \overline{K}^0)$ — Γ_6/Γ_4

NODE=B179R07
NODE=B179R07

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.256	90	JIA	19	BELL	In $\Upsilon(1S, 2S, 3S)$

$\Gamma(\Xi^- \pi^0 \overline{K}^0)/\Gamma(\Xi^- \overline{K}^0)$ — Γ_7/Γ_4

NODE=B179R03
NODE=B179R03

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.811	90	JIA	19	BELL	In $\Upsilon(1S, 2S, 3S)$

$\Gamma(\Xi^- \pi^+ K^-)/\Gamma(\Xi^0 K^-)$ — Γ_8/Γ_3

NODE=B179R06
NODE=B179R06

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.078	90	JIA	19	BELL	In $\Upsilon(1S, 2S, 3S)$

$\Gamma(\Xi^- \pi^+ K^-)/\Gamma(\Xi^- \overline{K}^0)$ — Γ_8/Γ_4

NODE=B179R02
NODE=B179R02

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.093	90	JIA	19	BELL	In $\Upsilon(1S, 2S, 3S)$

$\Omega(2012)^-$ REFERENCES

NODE=B179

JIA	19	PR D100 032006	S. Jia *et al.*	(BELLE Collab.)	REFID=59911
YELTON	18A	PRL 121 052003	J. Yelton *et al.*	(BELLE Collab.)	REFID=58858