

Selection criteria

$$\Delta R(\ell_2, \ell_3) < 1$$

$$\min|\Delta\phi(\ell_1, \ell_{2/3})| > 1 \text{ rad}$$

$$m(\ell_1\ell_2\ell_3) \in [50,80] \text{ GeV}$$

$$\text{number of b jets} = 0$$

$$p_T(\ell_2\ell_3) > 15 \text{ GeV}$$

$$\cos\theta(\text{SV}, \ell_2\ell_3) > 0.99$$

$$p_{\text{SV}} > 0.001$$

$$S(\Delta_{2\text{D}}) > 20$$

$$m(\ell_1\ell_{2/3}) \notin \text{vetoed ranges}$$

Resonance	Mass range (GeV)
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ω	0.78 ± 0.08
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ϕ	1.02 ± 0.08
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J/ ψ	3.10 ± 0.08
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$\psi(2\text{S})$	3.69 ± 0.08
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Y(1S)	9.46 ± 0.08
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Y(2S)	10.02 ± 0.08
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Y(3S)	10.36 ± 0.08
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Z	91.2 ± 10.0
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