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X(3872) and its bottomonium counterpart at ATLAS

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We present the measurement of the differential cross-section of the X(3872) state through its decays to J/ψ $\pi^+ \pi^-$ final state. The cross-section was extracted for both prompt and non-prompt production. The existence of the X(3872) suggests the presence of its bottomonium counterpart X_b . Search for X_b with the ATLAS experiment in several final states, including $Upsilon \pi^+ \pi^-$, is presented.

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