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First determination of X(3872) absolute Branching fractions and partial widths

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The absolute branching fraction of the decay B+ to X(3872) K+ is measured for the first time using the full BABAR data sample, thanks to a recoil mass method insensitive to the X(3872) decay modes. The branching fraction X(3872) to J/psi pi+pi- , and actually all X(3872) branching fractions corresponding to final states identified so far, can thus be determined. The partial widths of all these decays, and its production rate at the LHC can thus be compared to the various theoretical models to further constraint the complex nature of this particle.

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