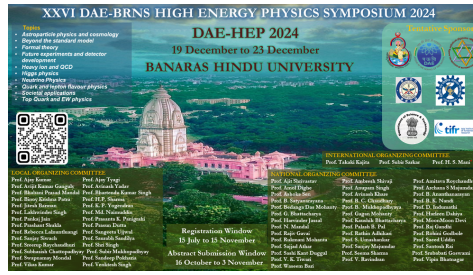


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## Study of bottomonia resonances at the LHC

In this work, We compute the production cross-sections for bottomonia resonances in proton-proton collisions using both NRQCD and Modified NRQCD formalism. Additionally, we have analyzed the production cross sections of  $\eta_b$  and  $h_b$ , in both NRQCD and modified NRQCD approaches using heavy quark symmetry relation. Where the two models differ substantially is in their predictions for  $\eta_b$  and  $h_b$  production. The differences in predictions for  $\eta_b$  and  $h_b$  production could point to underlying dynamics that might be important for understanding bottomonium production.

### Field of contribution

Phenomenology

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**Track Classification:** Heavy ion and QCD