## XXV DAE-BRNS High Energy Physics Symposium 2022



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## Study of 1P states of quarkonia using Quasi-Particle approach with baryonic chemical potential

Friday 16 December 2022 14:00 (1 hour)

We determine the properties of 1P states of Charmonium & Bottomonium in the presence of baryonic chemical potential using Quasi particle approach. Here we employed the medium modified form of Cornell potential which has both Coulombic as well as String part. This enables us to study the properties of heavy Quarkonia even above the critical temperature. Using Quasi particle approach with baryonic chemical potential we study the binding energy and the dissociation temperature of the 1P states of quarkonia. The mass spectra of 1P states of quarkonia is also calculated in the presence of baryonic chemical potential.

## Session

Heavy Ions and QCD

Author: Mr SHARMA, Rishabh (Dept of Physics, Central University of Jharkhand, Ranchi)

**Co-authors:** SOLANKI, Siddhartha (Department of Physics, Central University of Jharkhand, Brambe, Ranchi 835-205); Mr LAL, Manohar (Dept of Physics, Central University of Jharkhand, Ranchi); Dr AGOTIYA, Vineet Kumar (Dept of Physics, Central University of Jharkhand, Ranchi)

Presenter: Mr SHARMA, Rishabh (Dept of Physics, Central University of Jharkhand, Ranchi)

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