## Exotic charmed baryon states at finite temperature

We study doubly charmed baryons at finite temperature. By solving the three-quark Schroedinger equation with lattice simulated quark potential and chiral symmetry restoration at finite temperature, the doubly charmed baryons created in quark-gluon plasma are in the quark-diquark state as a consequence of chiral symmetry restoration. When the diquark state disappears at dissociation temperature  $T_d^{(2)}$ , the three-quark state can still survive till its dissociation temperature  $T_d^{(3)}$ . This indicates an exotic three-quark state in the temperature region  $T_d^{(2)} < T < T_d^{(3)}$ .

## **Preferred** Track

**Open Heavy Flavors** 

## Collaboration

Not applicable

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