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## Elliptic and triangular flow of charmonia in heavy ion collisions

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We discuss elliptic and triangular flow of charmonia in heavy ion collisions based on the coalescence model. Starting from the investigation on transverse momentum distributions of charmonium states, we calculate elliptic and triangular flow of charmonium states produced at quark-hadron phase boundary by quark recombination. We show that the wave function distribution of charmonium states plays a significant role, especially in the production of charmonium states, leading to the transverse momentum distribution of the  $\psi(2S)$  meson as large as that of the J/ $\psi$  meson. On the other hand, we find that wave function distributions as well as feed-down contributions are averaged out for elliptic and triangular flow, resulting in similar elliptic and triangular flow for all charmonium states. Based on our evaluation of elliptic and triangular flow for charmonium states in heavy ion collisions.

## Present via

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