

Abstract Submitted
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Polarized Heavy Quarkonia Production using the Color Evaporation Model¹ VINCENT CHEUNG, Univ of California - Davis, RAMONA VOGT, Univ of California - Davis Lawrence Livermore National Laboratory — Even more than 40 years after the discovery of J/ψ , the production mechanism of quarkonia is still not well understood. Non-Relativistic Quantum Chromodynamics (NRQCD), perhaps the best known approach for studying quarkonia production can reproduce the J/ψ p_T distribution. However, the long distance matrix elements (LDMEs) fitted from the p_T distributions fail to correctly describe the polarization. In this talk, I will outline the recent challenges to NRQCD and present the first leading order prediction of the polarization using the Color Evaporation Model, which integrates over all color states.

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