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Fast hadronization of charm, bottom and strange flavor in strangeness rich QGP JOHANN RAFELSKI, INGA KUZNETSOVA, University of Arizona — We study QGP hadronization at a given b bottom, c charm and s strange quark content conserving entropy. We evaluate the final yields of charm and bottom flavored hadrons within statistical hadronization model. In fast hadronization at fixed reaction volume the high strangeness s and entropy S content of QGP leads to chemical non-equilibrium condition among final state charm and bottom hadrons. We predict a significant increase of their yield, compared a slow (chemical equilibrium) hadronization. Yields of hadrons with two heavy quarks, including J/Ψ, decrease compared to expectations since charm (bottom) is 'used up' in strange hadron formation. This provides a new powerful mechanism of J/Ψ and Υ suppression. The yield of light hadrons without strangeness depends mainly on the temperature T of hadronization and the related light quark fugacity γ_q. However the ratio of non-strange to strange hadrons always decreases with increasing of s/S.

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