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Constraints on the symmetry energy at supra-saturation density from Pion Spectral Ratios

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Pion spectral ratios and double ratios are measured for neutron rich 132Sn+124Sn and neutron deficient 108Sn+112Sn collisions. Both pi-/Pi+ single spectral ratios for the two systems and double ratios obtained by combining both systems can be described by a dcQMD calculations. These comparisons provide a correlated constraint on L and on the neutron-proton effect mass difference. This represents a step forward towards constraining the symmetry energy at supra-saturation densities with pion production. Future steps to better constrain the symmetry energy at supra-saturation densities will be discussed.

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