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Equation of state of isospin asymmetric QCD with small baryon chemical potentials

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We extend our measurement of the equation of state of isospin asymmetric QCD to small baryon and strangeness chemical potentials, using the leading order Taylor expansion coefficients computed directly at non-zero isospin chemical potentials. The challenging extrapolations of the fully connected contributions to vanishing pion source are facilitated by using information from isospin chemical potential derivatives. Using the Taylor coefficients, we present, amongst others, first results for the equation of state along the charge chemical potential axis, which is potentially of relevance for the evolution of the early Universe at large lepton flavour asymmetries.

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