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Net-baryon fluctuations in Magnetized QCD matter

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The kurtosis and skewness of net baryon-number fluctuations are studied for the magnetized phase diagram of three-flavor quark matter within the Polyakov extended Nambu–Jona-Lasinio model. The effect of magnetic catalysis and inverse magnetic catalysis is considered using two distinct scalar interactions. Special attention is given to the fluctuations dependence near the critical end points (CEPs). Regions with large fluctuations but no CEP in non-magnetized matter develop a CEP under the action of a strong magnetic field.

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