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Femtoscopic correlations of light nuclei

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Femtoscopic correlations of light nuclei, such as proton-deuteron or deuteron-deuteron, are sensitive to a production mechanism of the nuclei. Therefore, one can distinguish whether nuclei are directly emitted from a fireball, as one assumes within the thermodynamic approach, or whether nuclei are formed later on due to final-state interactions, as the coalescence model assumes. The correlation function takes a different form in the two cases and the results may differ qualitatively. The whole problem will be discussed in the context of recent experimental data from RHIC and LHC, in particular those on proton-deuteron correlations. Suggestions for future studies will be presented.

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