Transport Model Simulations for the Newly Formed Nuclei of Hadrons

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Herein, we report transport model simulations to determine of the newly formed nuclei and hypernuclei of hadrons at high energies. Previously, we have initiated to analyse new nuclei formation at different energies by using methods and models as in Refs. [1, 2]. In this study, differently, UrQMD model is used for theoretical calculations for this purpose and results are compared with experimental data. Our findings have demonstared that satisfactory agreement has found by using transport model applications. Further investigations would be interesting to solve puzzle of complex nuclei and hypernuclei formation in future FAIR experiments.

References

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