

Abstract Submitted  
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**On the study of correlations among fragments in heavy ion collisions at intermediate energies** ROHIT KUMAR, SUCHETA ., RAJEEV PURI, Panjab University, Chandigarh —

- 1 The microscopic many-body approaches such as quantum molecular dynamics model are used study heavy-ion collisions at intermediate energies and facilitate the extraction of nuclear matter properties at hot and dense conditions. The generated nucleonic information of these approaches is used to obtain fragments using r or p-space proximity of nucleons. More complex ones use energy minimization of fragmenting system [1]. Here, we will show the role played by changing the clusterization algorithm on the fragment-fragment correlations within the events.
- 2 [1] R. Kumar et al., *Phys. Rev. C* **97**, 034624 (2018).

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