

We consider a system of N nonrelativistic particles which form a near-threshold resonance. Assuming no subset of these particles forms a bound state, the resonance decays by an “explosion” into N particles. We find the behavior of the width of the resonance as a function of its energy when the latter is small. We compute the momentum distribution of the decay products when N is large, distinguishing the bosonic and fermionic cases. As a realistic example, we discuss the physics of small clusters of ^3He atoms.

Reference: [arXiv:2112.03318](https://arxiv.org/abs/2112.03318)