

## Seminarium Zakładu Zastosowań Matematyki

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Coalescing random jumps in continuum: evolution of states  
and mesoscopic scaling (continuation)

### ***Abstract***

An individual-based model of possibly infinitely many jumping and merging particles will be discussed. States of the model are probability measures on configuration space of points in  $d$ -dimensional Euclidean space. The existence and uniqueness of the evolution of states will be discussed for the initial state being a sub-Poissonian measure. A Vlasov-type scaling will be presented, resulting in kinetic equation and therefore giving the mesoscopic description of the evolution.