

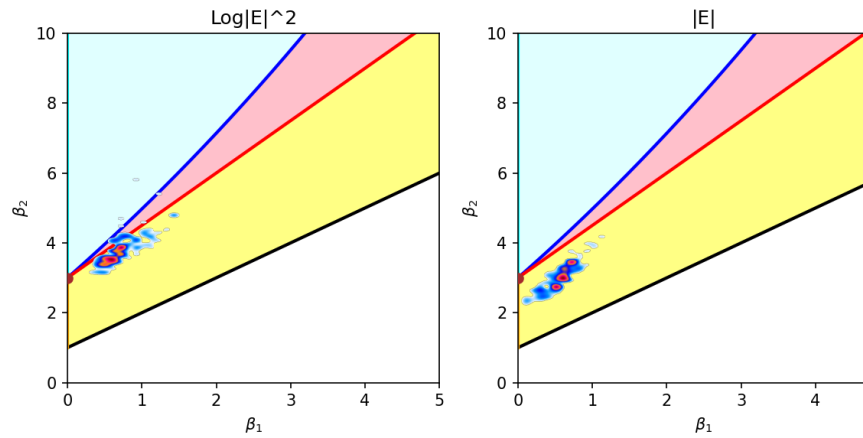
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## Clusterization of Pearson diagrams for beam-plasma interaction PIC simulations

**Problem:** to automatically and quickly sort a set of diagrams into several groups

Pearson diagrams are obtained from the results of numerical simulations of electron beam propagation through magnetized homogeneous/non-homogeneous plasmas with different parameters. For more details see in *Annenkov et al. sent to A&A*



The example of a diargam is below.

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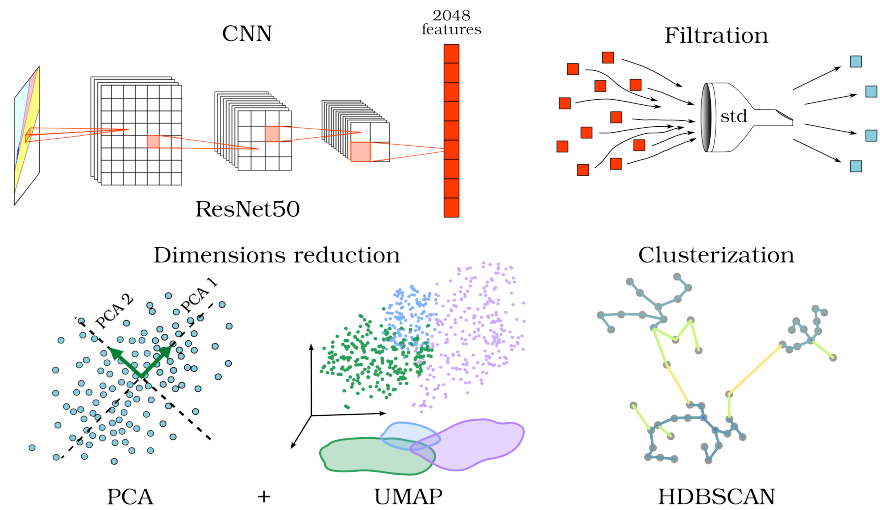


Figure 1: processing

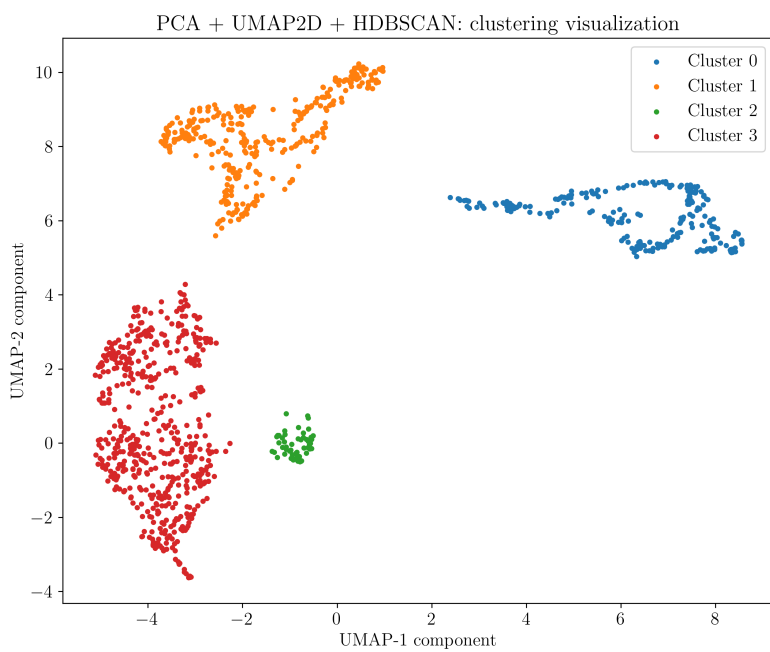


Figure 2: results