D. Smith et al., Identification of characteristic ELM evolution patterns with Alfvenscale measurements and unsupervised machine learning analysis

- BES measurements with Alfvenic time resolution capture the nonlinear evolution of ELM events on NSTX/NSTX-U
- Unsupervised machine learning algorithms identified groups of ELMs with similar evolution characteristics
  - The identified ELM groups correspond to specific parameter regimes relevant to ELM physics: I<sub>p</sub>, κ, dR<sub>sep</sub>, n<sub>e,ped</sub>
- 2D BES measurements are now available on NSTX-U

