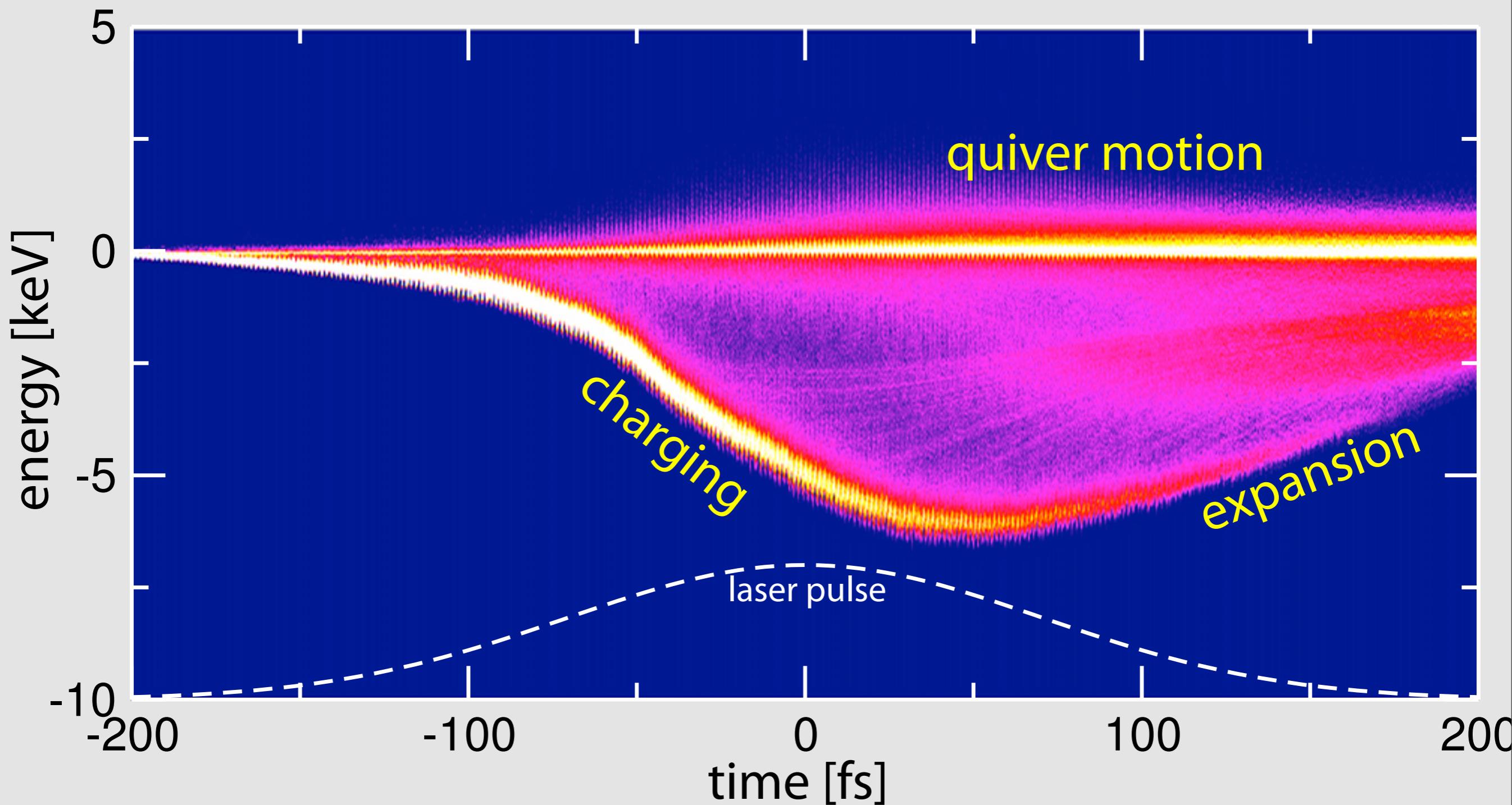


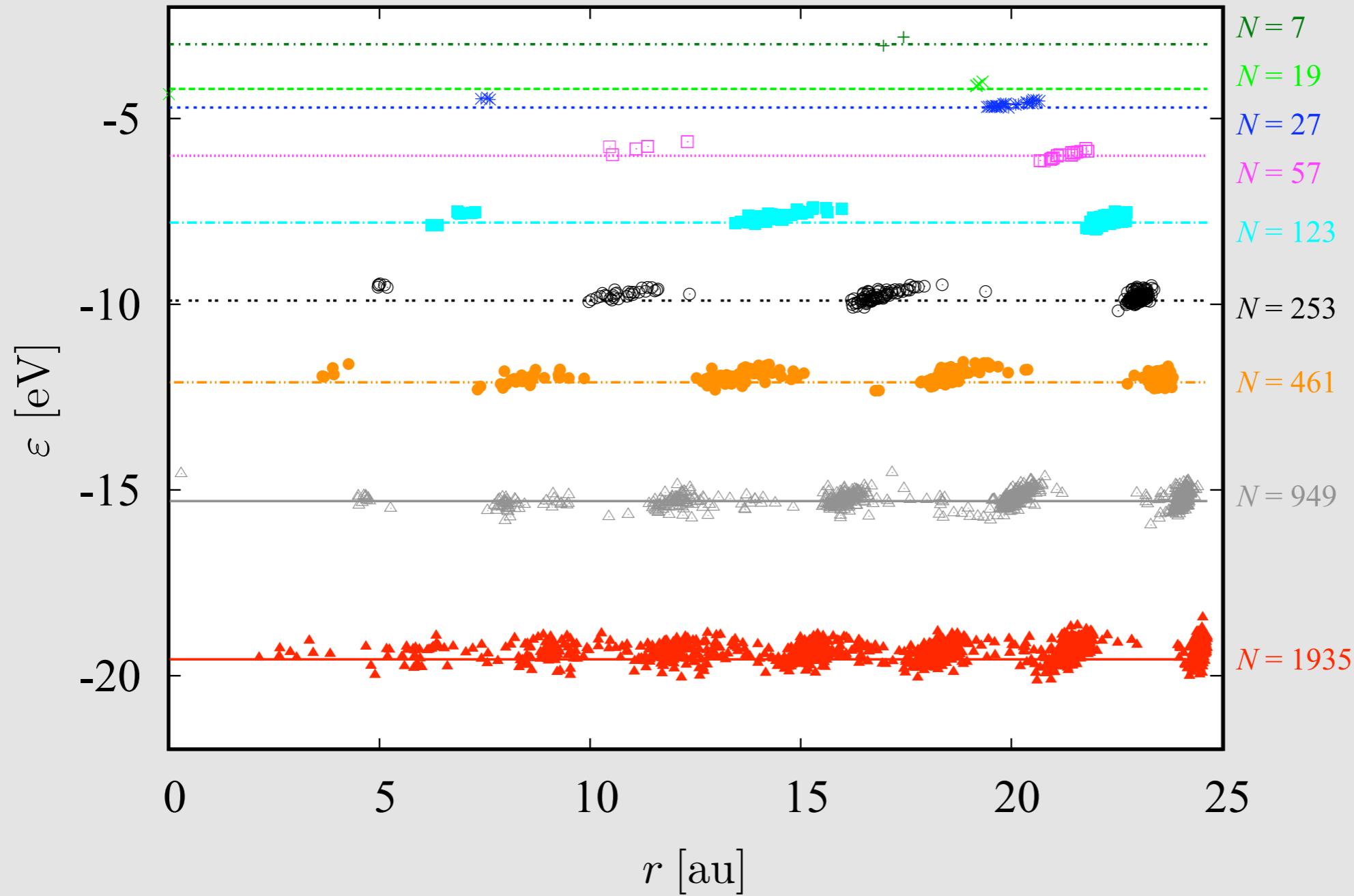
time-dependent electron energies

cluster: Xe₉₀₉₃

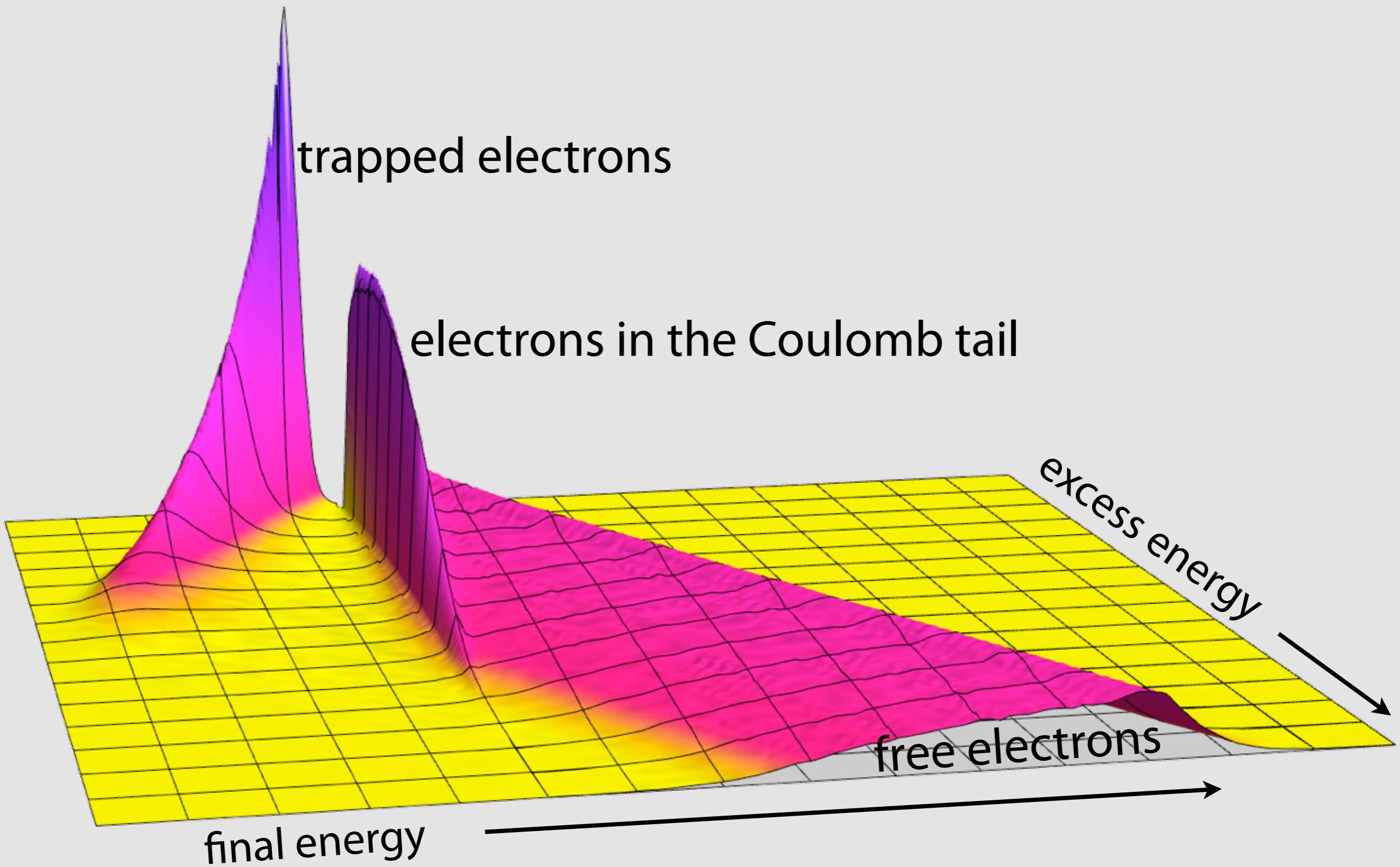
laser pulse: 780nm, $2 \times 10^{15} \text{W/cm}^2$, 200fs



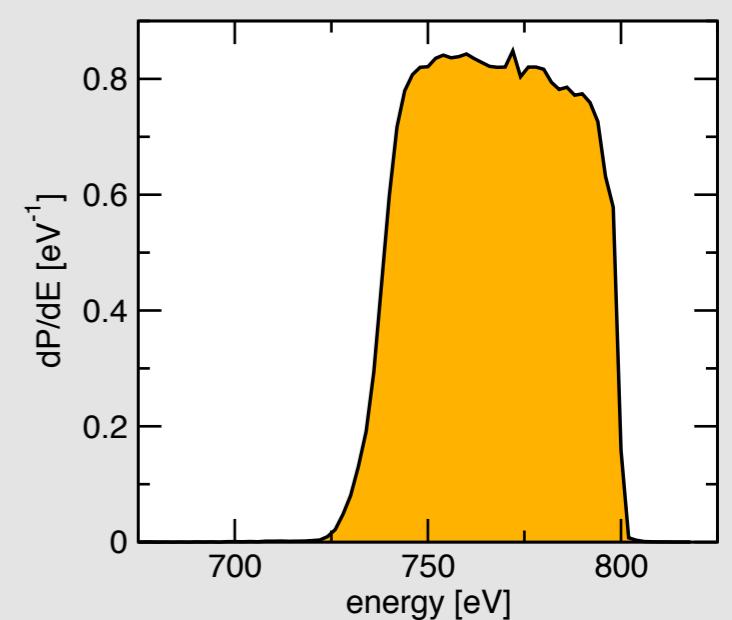
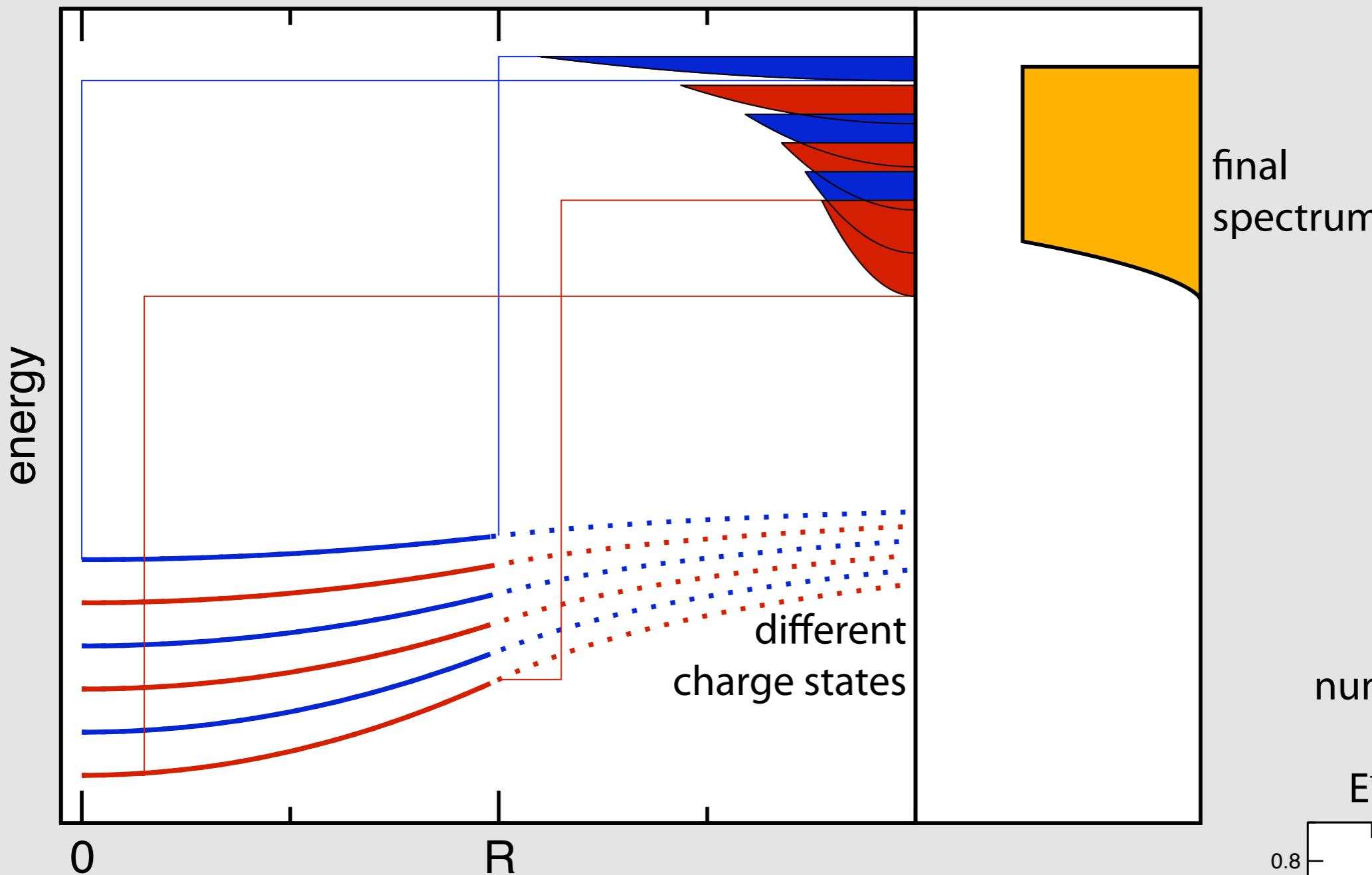
binding energies in a Coulomb complex



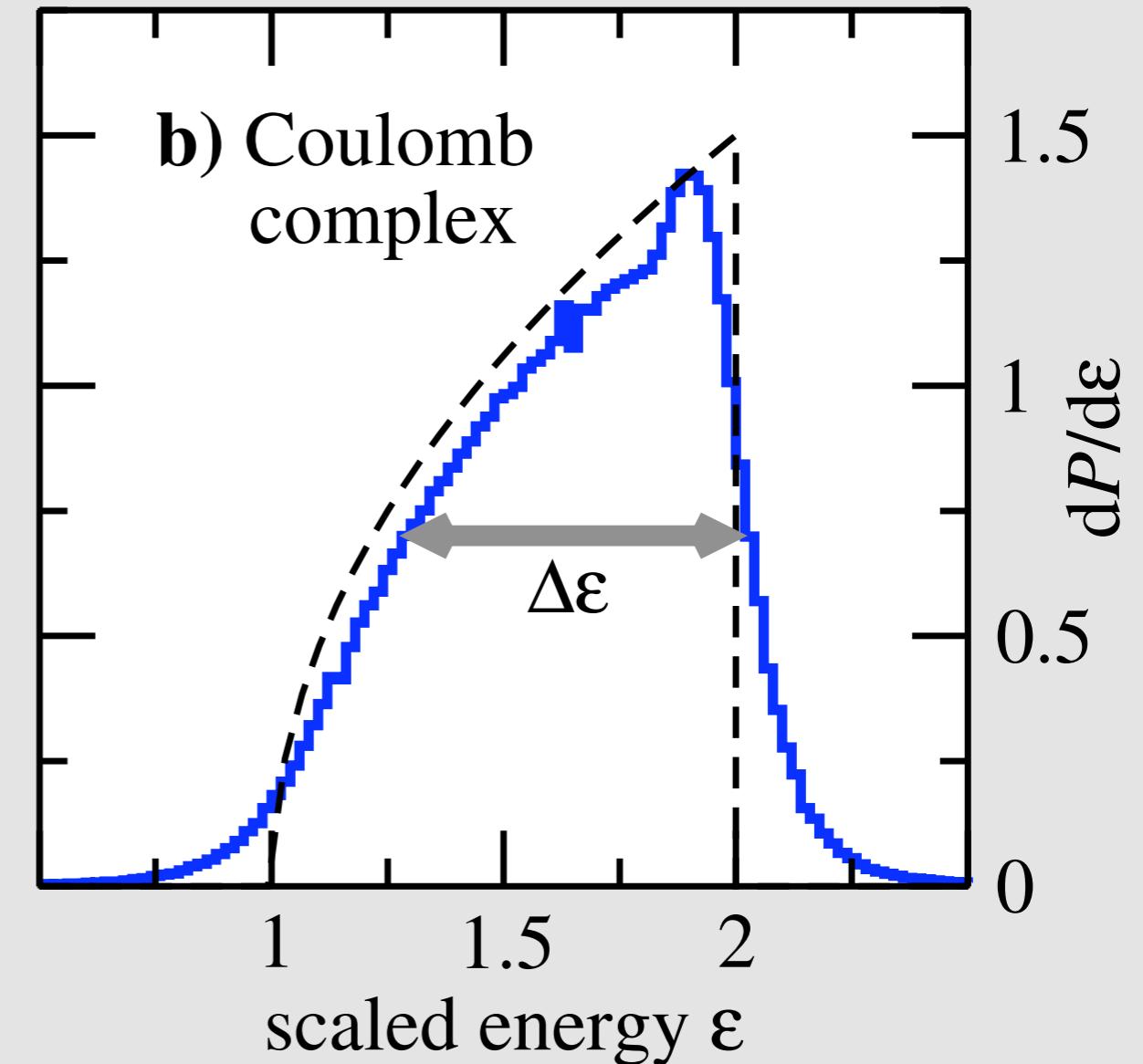
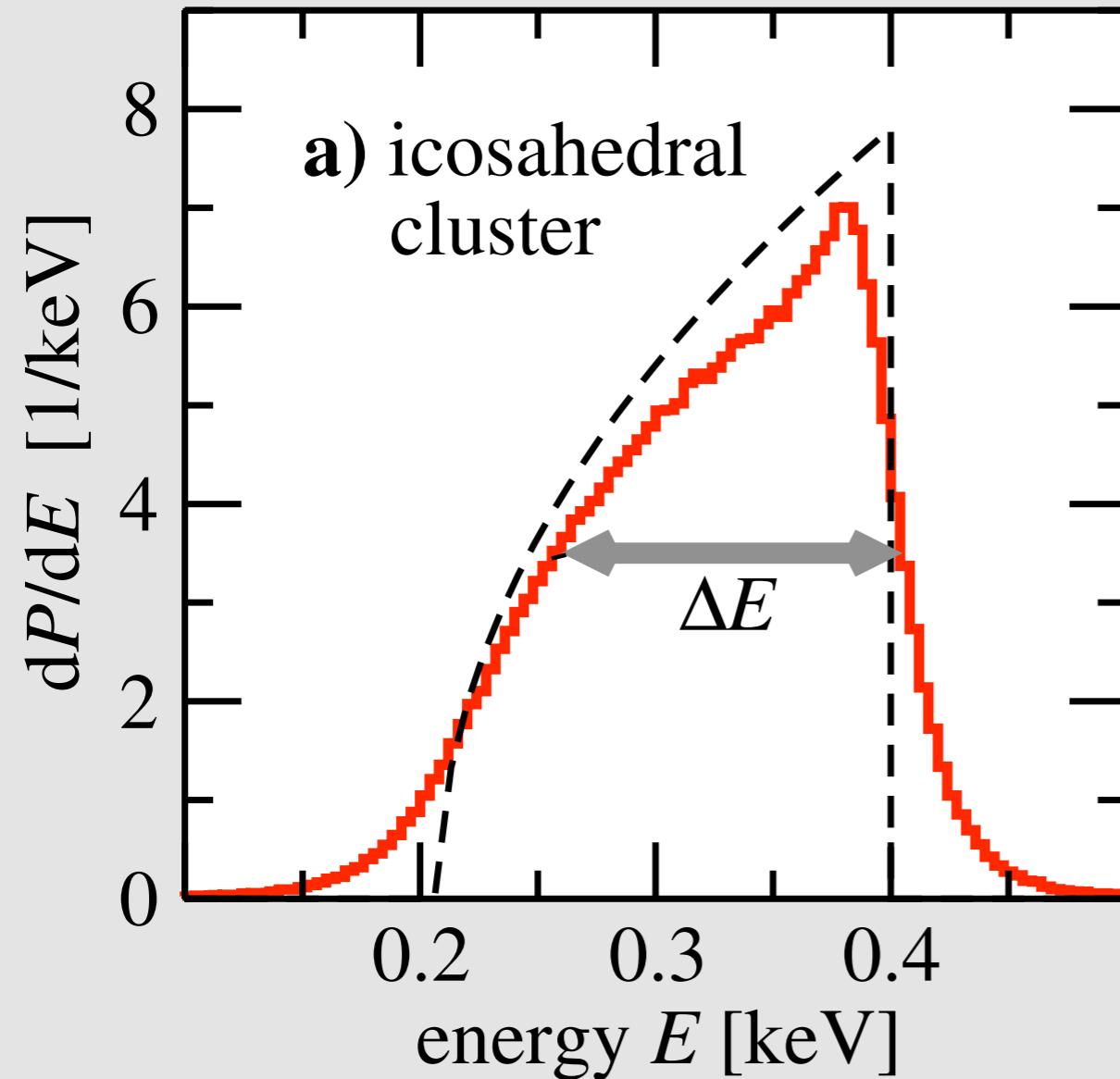
energy spectrum after sudden ionization



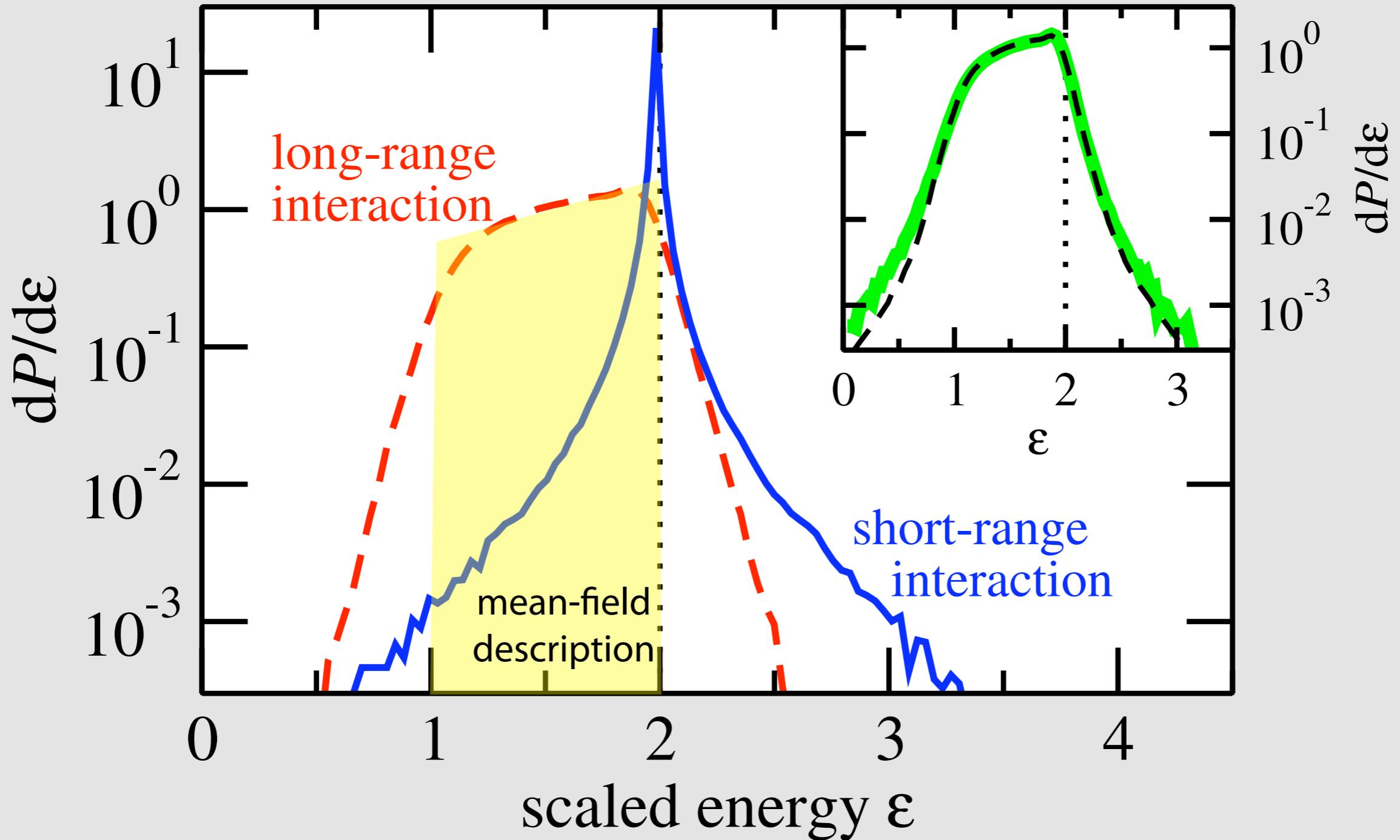
formation of a sequential spectrum



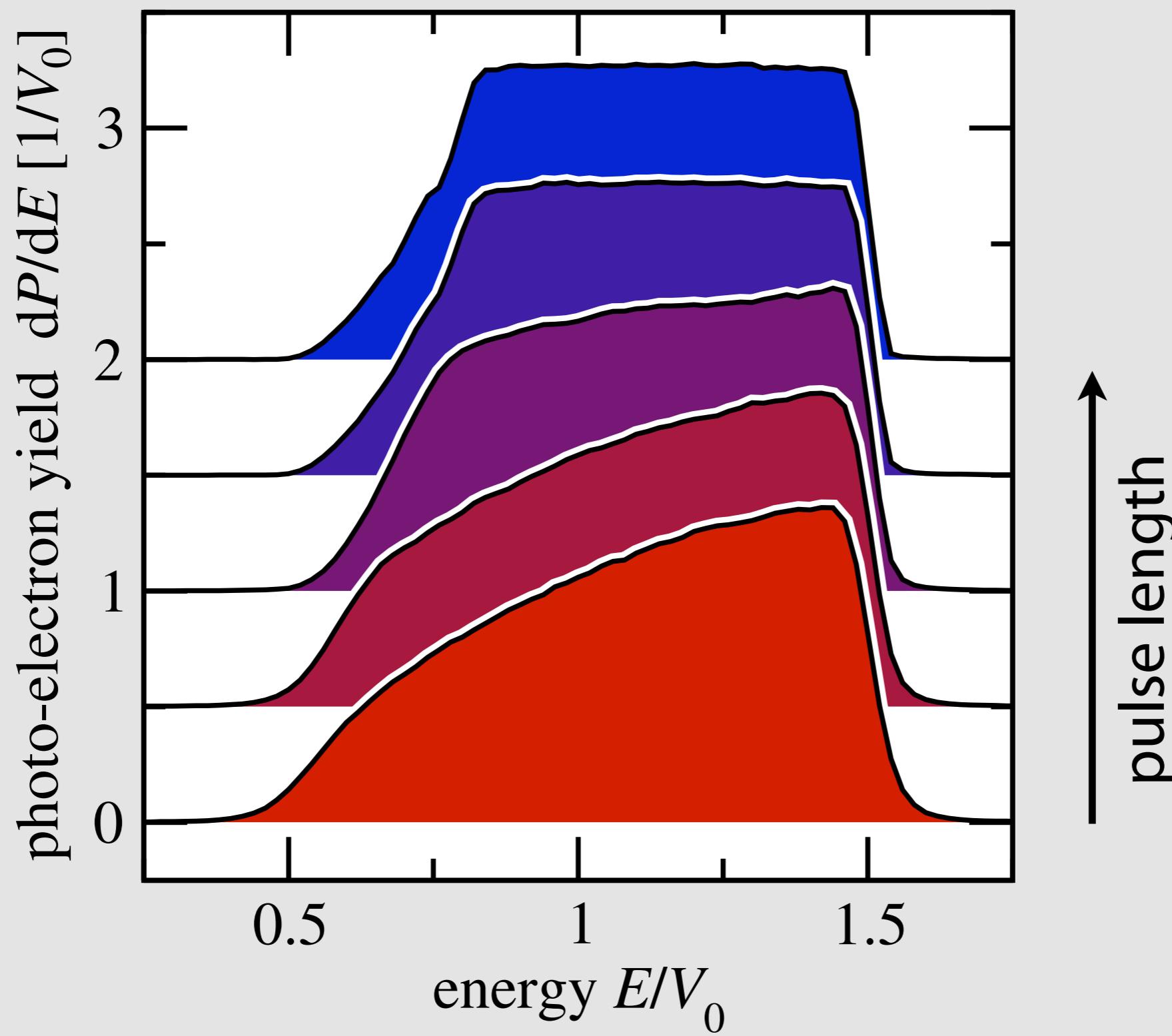
massively parallel ionization



parallel ionization: short vs. long-range interaction



transition from parallel to sequential ionization



related papers

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Ch Gnodtke, U Saalmann and J M Rost

Chem. Phys. (2012)

Massively parallel ionization of extended atomic systems

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Phys. Rev. Lett. 108 (2012) 175003

Dynamics of photo-activated Coulomb complexes

Ch Gnodtke, U Saalmann and J M Rost

New J. Phys. 13 (2011) 013028

Fast electrons from multi-electron dynamics in xenon clusters induced by inner-shell ionization

C Bostedt, H Thomas , M Hoener, T Möller,

U Saalmann, I Georgescu, Ch Gnodtke and J M Rost

New J. Phys. 12 (2010) 083004