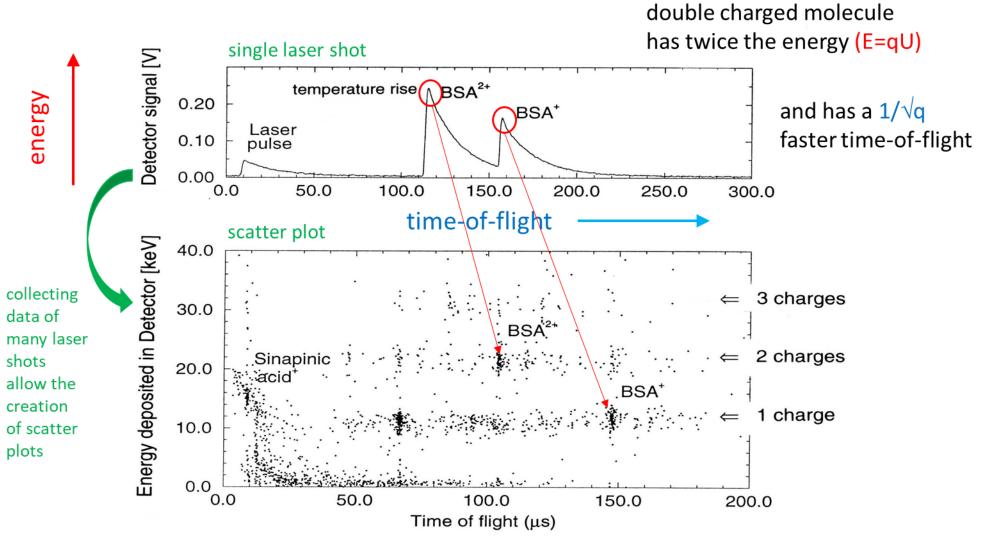
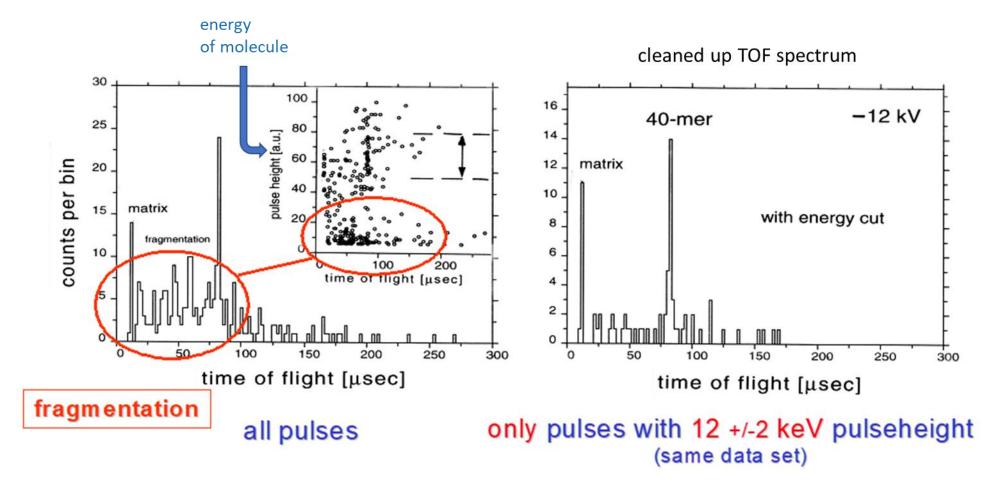
CryoDetectors measure both the time-of-flight and the kinetic energy of the single molecule

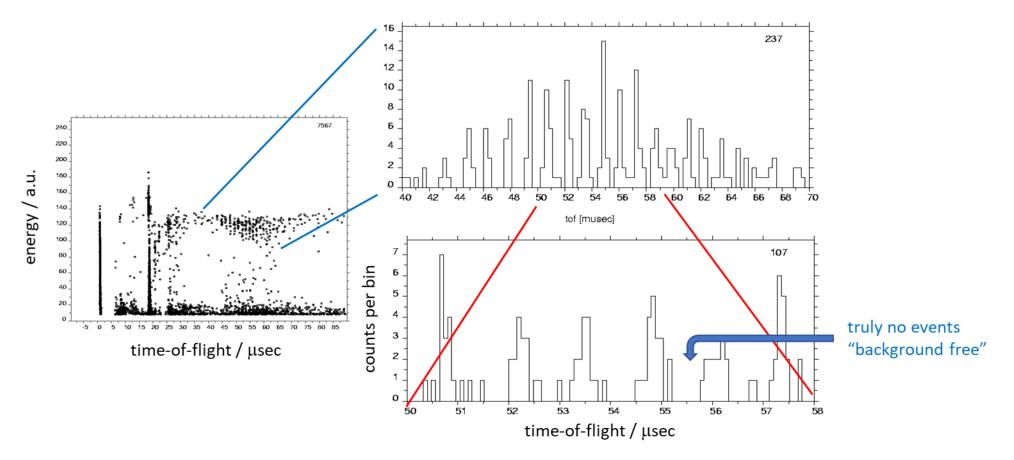


Energy as additional information to clean up spectrum:

example: single stranded DNA 40-mer oligonucleotide time-of-flight spectrum



Polystyrene 2000: «background free spectra» by making energy cuts



Polystyrene 2000: varying laser power induces different fragmentation patterns. For the same time-of-flight (mass) the molecule has different kinetic energies (details are not yet understood, but may provide information about MALDI process)

