Improving spectral fidelity of PIC algorithm by optimization of low-cost particle shape

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- What is new?
  - Linear numerical dispersion for EM PIC, for both charge-conserving and non charge-conserving schemes (Meyers et al., JCP 2015)
  - What needs to be fixed? Optimization of particle shape
  - Steps to optimize a particle shape
    - Find best (and low-cost) spectral response for fixed shape width; low-hanging fruit from signal processing community
    - Optimize shape width with respect to grid size (in principle, only for those particles involved in instability)
    - Construct interpolation function from the optimized shape