

Introduction to Octopus: model systems

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Model systems in Octopus

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 - States and dynamics in quantum well or harmonic oscillators
 - electron scattering (in 1D)

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Custom potentials can be defined in the Species block:

```
%Species
'H' | species_pseudo | file | '../H.hgh'
'jlm' | species_jellium | jellium_radius | 5.0
'udf' | species_user_defined | potential_formula | "1/2*r^2" | valence | 8
%
```

The tutorials

You can find the tutorials under this link:

<https://octopus-code.org/wiki/Tutorials>

Periodic systems series:

- Lesson 1: 1D Harmonic Oscillator
- Lesson 2: Particle in a box
- Lesson 3: 1D Helium
- Lesson 4: Particle in an octopus
- Lesson 5: e-H scattering

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Have Fun !

