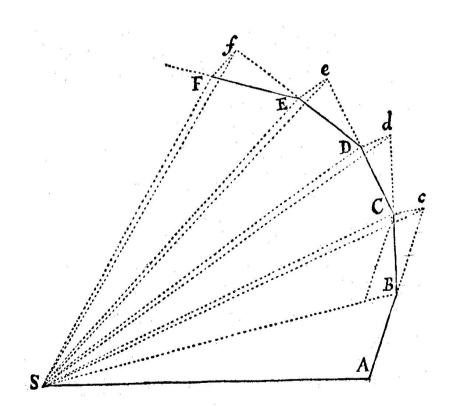
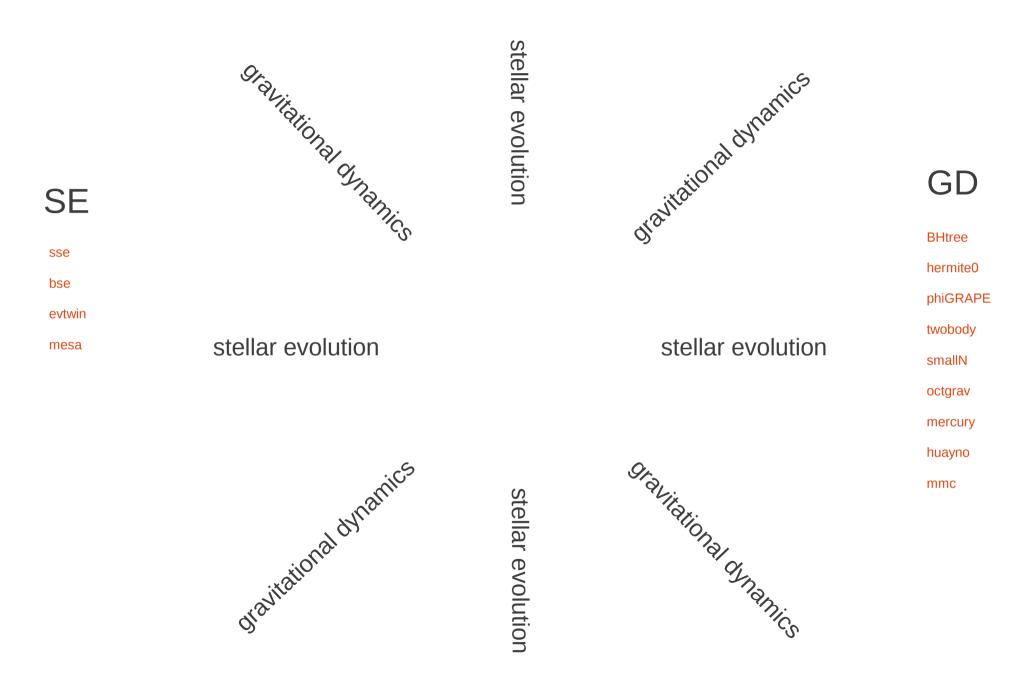
## **Building Models with AMUSE**





## GD

```
import numpv
imports
                   from amuse.community.mercury.interface import MercuryWayWard
                   from amuse.ext.solarsystem import Solarsystem
                   from amuse support units import units
                   from amuse.plot import *
                   def planetplot():
                       sun  planets = Solarsystem.new_solarsystem()
initial
                       timerange = units.day(numpy.arange(0_1 120 * 365.25, 12))
conditions
                       instance = MercuryWayWard()
setup code
                       instance.initialize_code()
                       instance.central_particle.add_particles(sun)
                       instance.orbiters.add_particles(planets)
                       instance.commit_particles()
                       channels = instance.orbiters.new_channel_to(planets)
evolve
                       for time in timerange:
                           err = instance.evolve_model(time)
                           channels.copy()
                           planets.savepoint(time)
                       instance.stop()
                       for planet in planets:
process
                           t<sub>1</sub> x = planet.qet_timeline_of_attribute_as_vector("x")
                           t<sub>1</sub> y = planet.qet_timeline_of_attribute_as_vector("y")
                           plot(x<sub>1</sub> y<sub>1</sub>'.')
```

native\_plot.show()

if \_\_name\_\_ == "\_\_main\_\_":

planetplot()