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from components import (Lens, Deflector, DoubleDeflector, Biprism, Aperture,
                        AstigmaticLens, Quadrupole)
from model import buildmodel
from main import run_pyqt

#Create List of Components
components = [AstigmaticLens(name = 'Astigmatic Lens', z = 1.2),
             Lens(name = 'Lens', z = 1.0),
             Quadrupole(name = 'Quadrupole', z = 0.9),
             DoubleDeflector(name = 'Double Deflector', z_up = 0.70, z_low = 0.65),
             Deflector(name = 'Deflector', z = 0.6, defx = 0, defy = 0),
             Biprism(name = 'Biprism', z = 0.4),
             Aperture(name = 'Aperture', z = 0.1, aperture_radius_inner = 0.05)]

#Generate TEM Model
model = buildmodel(components, beam_z = 1.5, beam_type = 'point',
                  num_rays = 32, beam_semi_angle = 0.03)

#Run Pyqtgraph Interface
run_pyqt(model)

```