

# Simulating a rotating drum

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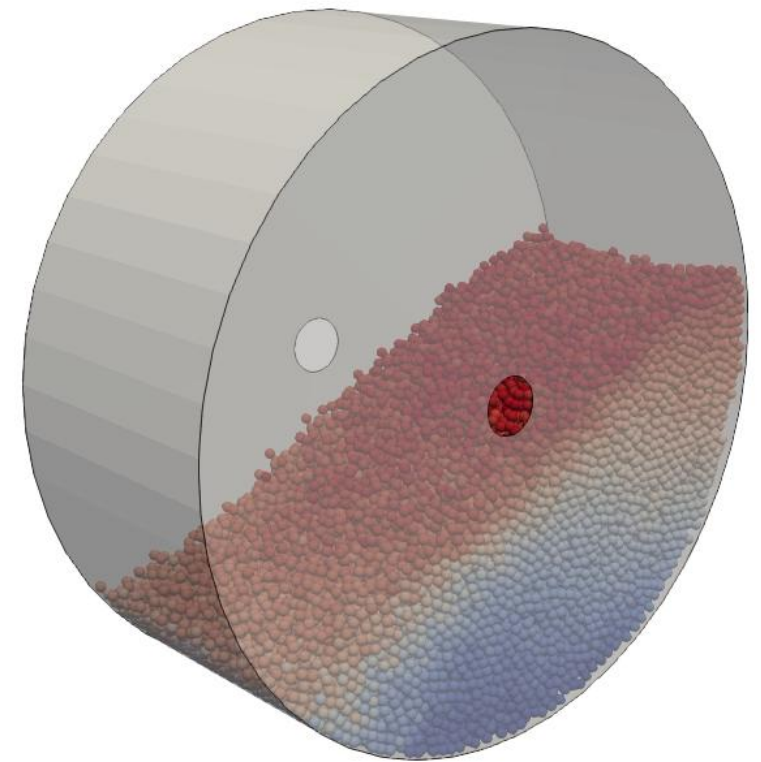




# Problem Definition

- Geometric data
  - Length: 10 cm
  - Diameter: 24 cm
- Particles
  - 4-mm spheres
  - Density: 1000 kg/m<sup>3</sup>
- Simulation
  - Duration: 10 s
  - dt: 10<sup>-5</sup> s
  - Integration method: Adams-Bashforth 4<sup>th</sup> order

**Time: 1.10 s**





# Steps toward simulation

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- Defining particles:
  - Define particles: names, densities, sizes
  - Initial position and velocity
- Defining geometry:
  - Motion model
  - Surfaces and their physical properties
- Performing simulation
  - Simulation settings
  - Simulation domain
  - Solver: sphereGranFlow
- Post-processing
  - pFlowToVtk



# Simulation Domain

