

sept.cc : ^{G4 Run Manager} Detector Construction ^{run Manager} detector

↓ ^{ifb}

World.cc : ifdef KASTENFELD
↳ magnetic_field Bfield

else
↳ magnetic_field Bfield ("sept_bfield.dat", ...)

→ Construct () :

^{sens} sensor geometry *sensor

↓ ^{ifb}

sensor_geometry.cc : G4LogicalVolume (
G4Box (2 * infinity, ,
"sensor"))
:
:
:

return G4PVPlacement (sensor, "World")

runManager → SetUserInitialization (detector)

ET PhysicsList *physics

runManager → SetUserInitialization (physics)

runManager → SetUserAction (new draw_event)

(new GeneratorAction())

↓ ^{ifb}
sept.cc GeneratorAction
: four_pigm

VisManager *visManager

UIManager *ui = G4UIManager::GetUIpointer();
:
:
:
✓ Simulation starten, Kommandozeilen-Optionen bearbeiten

sensor-geometry.CC:

G4LogicalVolume * halfsensor

G4Region * Sensor_Region → Root: halfsensor

G4UserLimits sensorcuts → Sensor_Region

G4PVPlacement (halfsensor → this)

G4UserLimits spacecuts

SetUserLimits(spacecuts);

G4UserLimits siliconcuts → Det_Region

G4Region Det_Region → Root: detector

G4LogicalVolume * detector: detector-geometry

G4PVPlacement (detector → halfsensor)

G4LogicalVolume foil: foil-geometry

G4PVPlacement (foil → halfsensor)

magnet-geometry * magnet: magnet-geometry

G4PVPlacement (magnet → halfsensor, "magnet 1")

G4PVPlacement (magnet → halfsensor, "magnet 2")

aperture-geometry * mag-app: aperture-geometry

G4PVPlacement (mag-app → halfsensor)

aperture-geometry foil-app: aperture-geometry

G4PVPlacement (foil-app → halfsensor)

Simulation geometry

Volume	V
Region	R
Cut	C
(1-1)	(1)

→ Policing

klasse

