NUMERICAL RESULTS

Model of knee joint

- quasi-static problem
- matching mesh
- modified Uzawa algorithm with PCGM

Material parameters (Young's modulus E, Poisson's ratio ν)

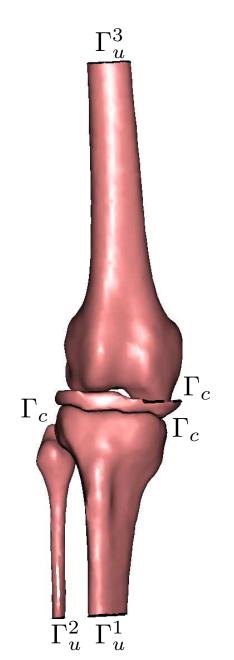
- bone: $E = 1.71 \times 10^{10}$ [Pa], $\nu = 0.25$
- meniscus: $E = 4.92 \times 10^8$ [Pa], $\nu = 0.1$

Discretization parameters

- number of nodes . . . 14828
- number of elements (tetrahedral) . . . 60629

Boundary conditions

- the tibia and the fibula are fixed on Γ^1_u and Γ^2_u
- for the femur is prescribed displacement -0.5 mm on Γ_u^3 in direction of femur axis for dorso-anterior deviation $\pm 2^\circ$



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