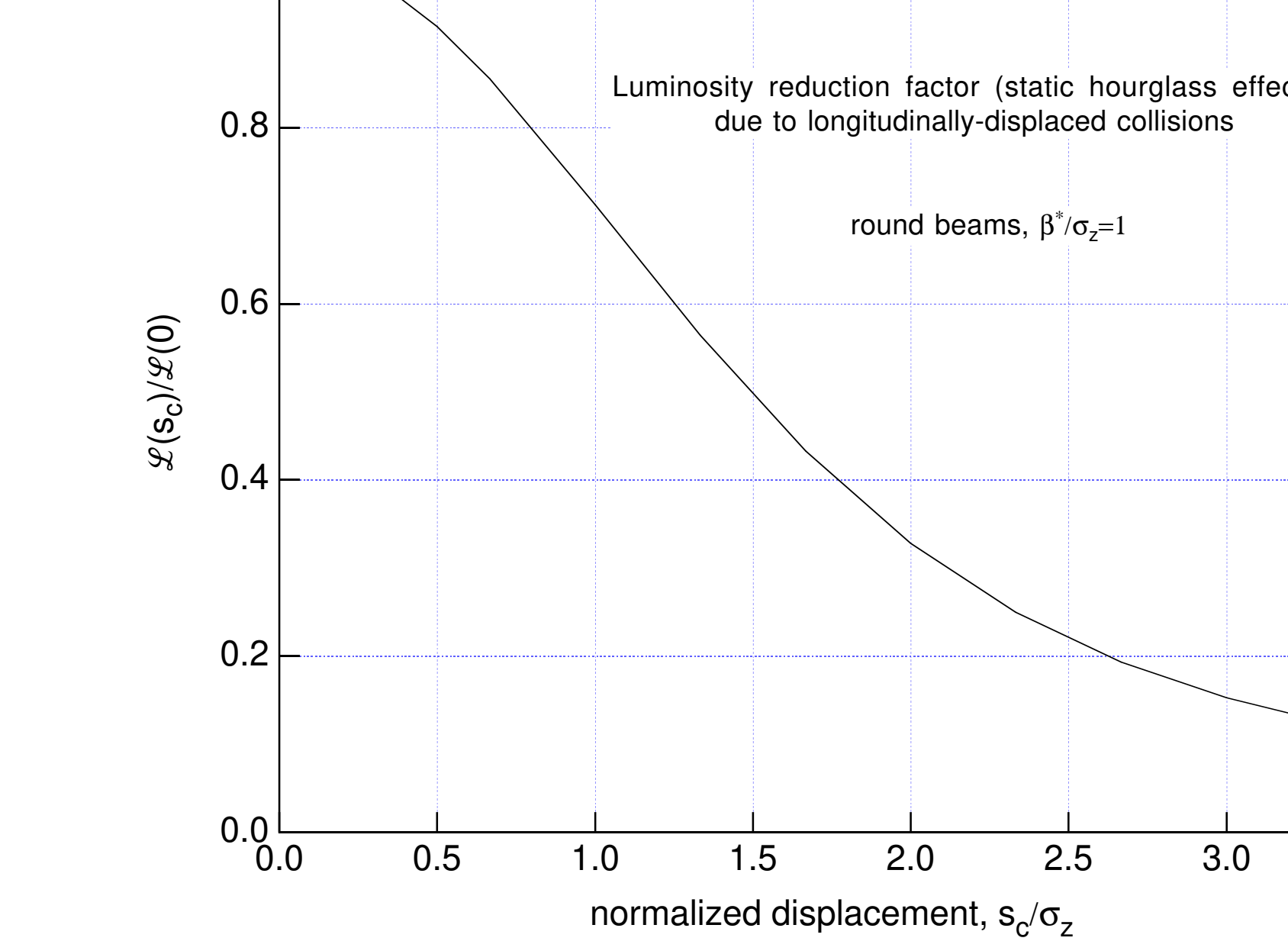
Luminosity reduction factor (static hourglass effec
due to longitudinally-displaced collisions
round beams, β*/σz=1
ℒ(sc)/ℒ(0)
0.0
0.2
0.4
0.6
0.8
0.0
0.5
1.0
1.5
2.0
2.5
3.0
normalized displacement, sc/σz