Dataset Name	Deforming Object	Deformation Action	Physical Model Object	Physical Model Deformation	View matrix	Projection matrix	Dataset size	timeStep Sim	Machine Specifications
dataset1	Ball	gravity: (0, 0, -9.81)	ball.obj ball.vtk basePosition = [0,0,1.5] scale = 0.5 mass = 4	useNeoHookean = 1 NeoHookeanMu = 400 NeoHookeanLambda = 600 NeoHookeanDamping = 0.001 useSelfCollision = 1 frictionCoeff = .5 collisionMargin = 0.001	cameraTargetPosition=[0.0,0.0,0.5] distance=6.5 yaw=[0+30, 90+30, 180+30, 270+30] pitch=-50 roll=0 upAxisIndex=2	width = 960 height = 540 K00 = 1050.0 K01 = 0.0 K02 = 480.0 K11 = 1050.0 K12 = 270.0 znear = .01 zfar = 10	151	1./240	OS: Ubuntu 22.04.2 LTS; Graphics: Mesa Intel(R) UHD Graphics 630; CPU: Intel® Core™ i9-9900K CPU @ 3.60GHz × 16; PyBullet version: 3.2.5
dataset2	Torus	gravity: (0, 0, -9.81)	torus/torus_textured.obj torus.vtk basePosition = [0,0,1] mass = 3	useNeoHookean = 1 NeoHookeanMu = 180 NeoHookeanLambda = 600 NeoHookeanDamping = 0.01 useSelfCollision = 1 collisionMargin = 0.006 frictionCoeff = 0.5 repulsionStiffness = 800	cameraTargetPosition=[0.0,0.0,0.5] distance=6.5 yaw=[0+30, 90+30, 180+30, 270+30] pitch=-50 roll=0 upAxisIndex=2	width = 960 height = 540 K00 = 1050.0 K01 = 0.0 K02 = 480.0 K11 = 1050.0 K12 = 270.0 znear = .01 zfar = 10	151	1./120	OS: Ubuntu 22.04.2 LTS; Graphics: Mesa Intel(R) UHD Graphics 630; CPU: Intel® Core™ i9-9900K CPU @ 3.60GHz × 16; PyBullet version: 3.2.5
dataset3	Torus	gravity: (0, 0, -9.81) with anchor points	torus/torus_textured.obj basePosition = [0,0,1] mass = 3	useNeoHookean = 0 useBendingSprings=1 useMassSpring=1 springElasticStiffness=40 springDampingStiffness=.1 springDampingAllDirections = 1 useSelfCollision = 0 frictionCoeff = .5 useFaceContact=1	cameraTargetPosition=[0.0,0.0,0.5] distance=6.5 yaw=[0+30, 90+30, 180+30, 270+30] pitch=-50 roll=0 upAxisIndex=2	width = 960 height = 540 K00 = 1050.0 K01 = 0.0 K02 = 480.0 K11 = 1050.0 K12 = 270.0 znear = .01 zfar = 10	151	1./120	OS: Ubuntu 22.04.2 LTS; Graphics: Mesa Intel(R) UHD Graphics 630; CPU: Intel® Core™ i9-9900K CPU @ 3.60GHz × 16; PyBullet version: 3.2.5