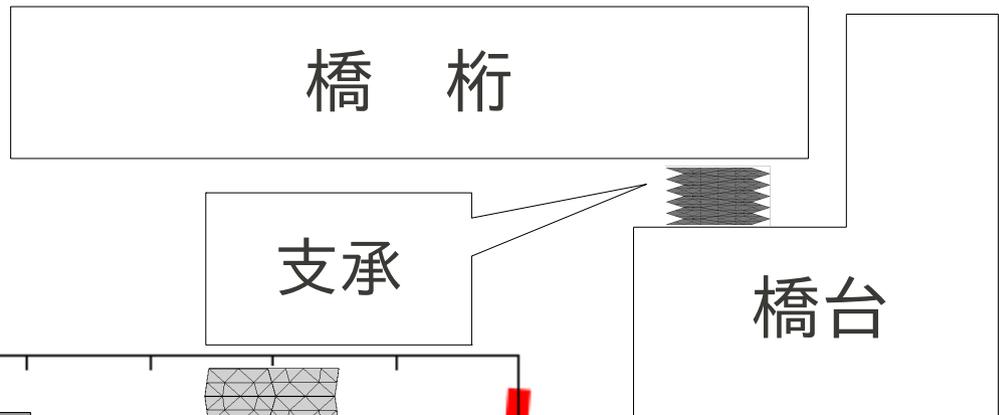


蛇腹折り円筒の力学挙動と3Dプリンターの可能性

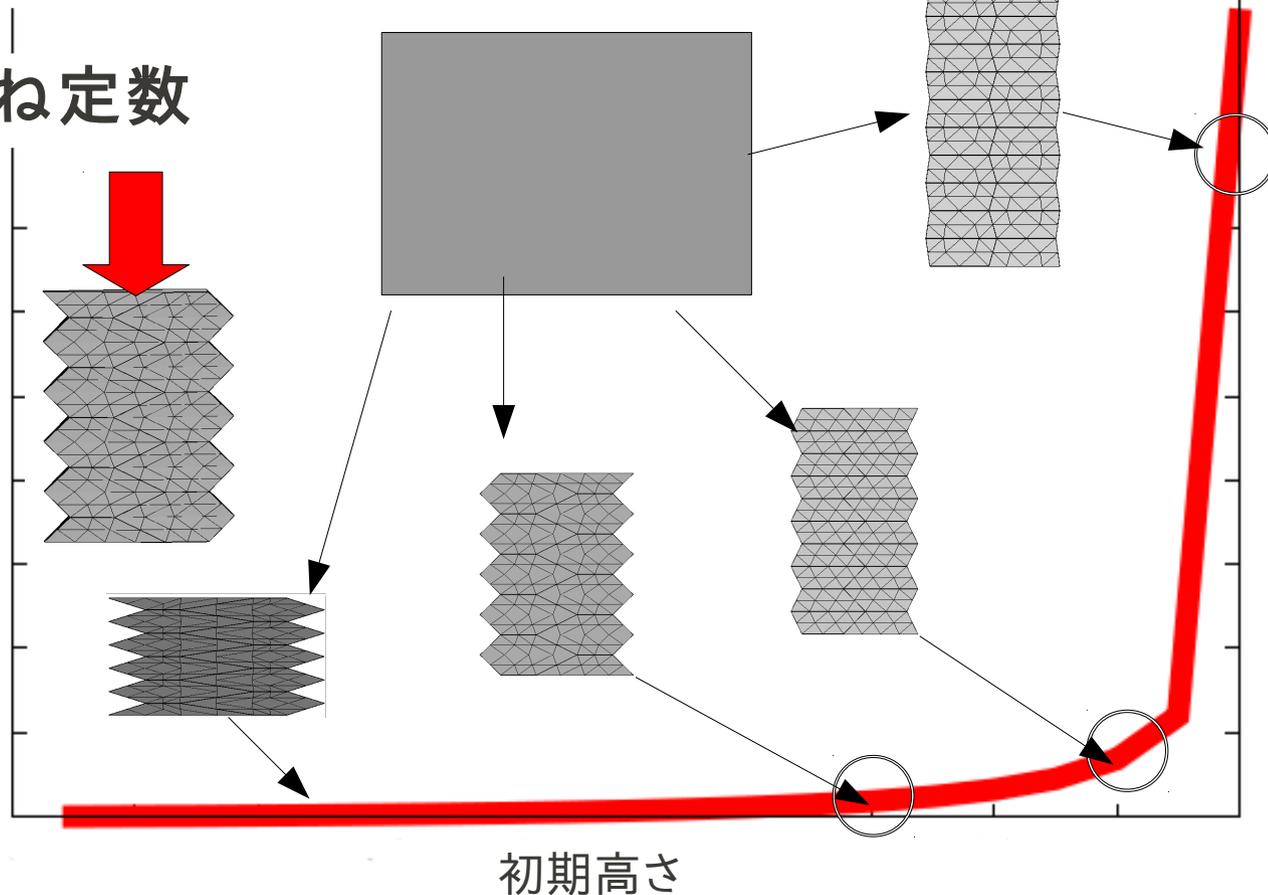
7510732 鶴田翔

バネ特性



過去の研究より

ばね定数

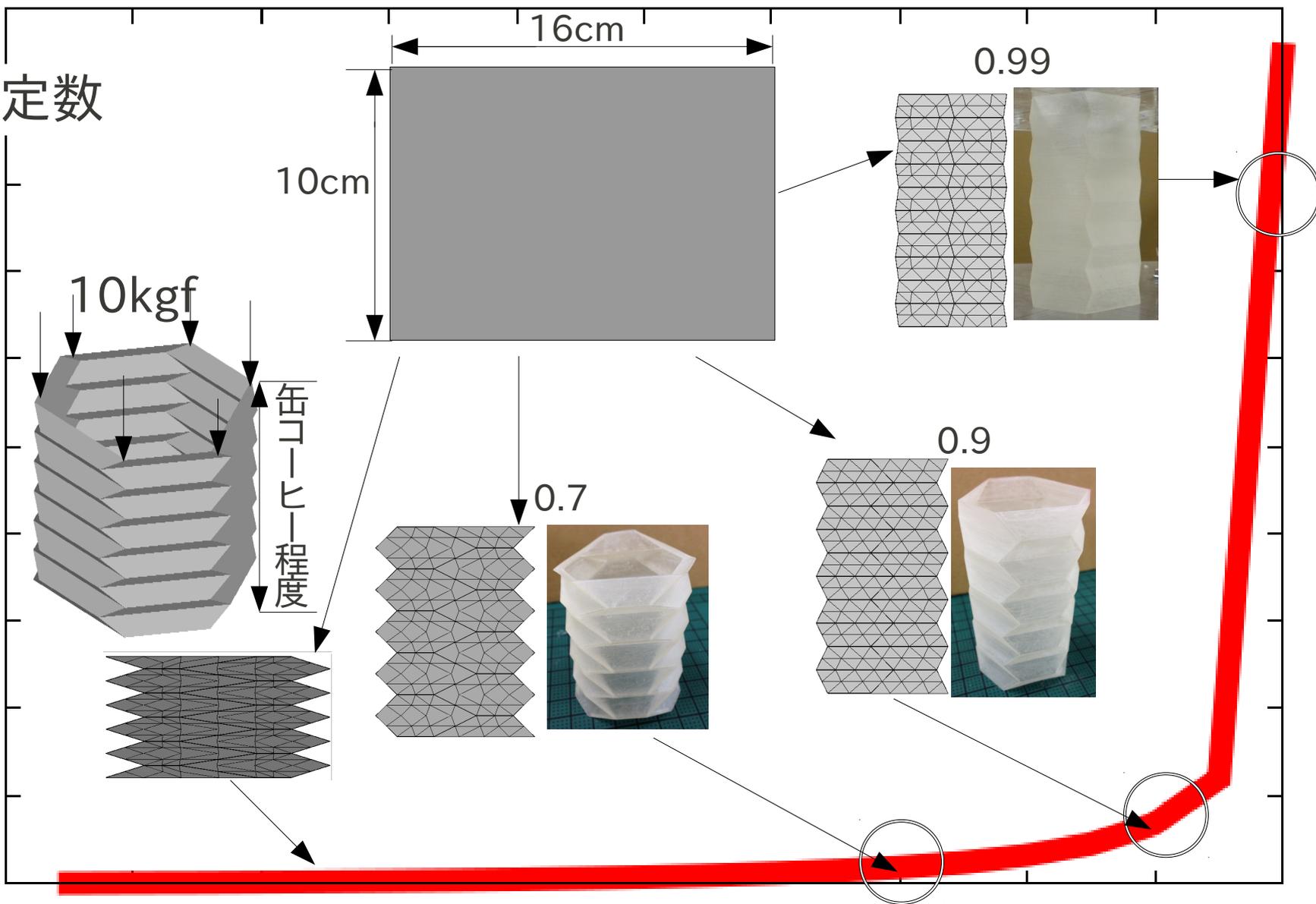


3Dプリンター



数値解析

バネ定数



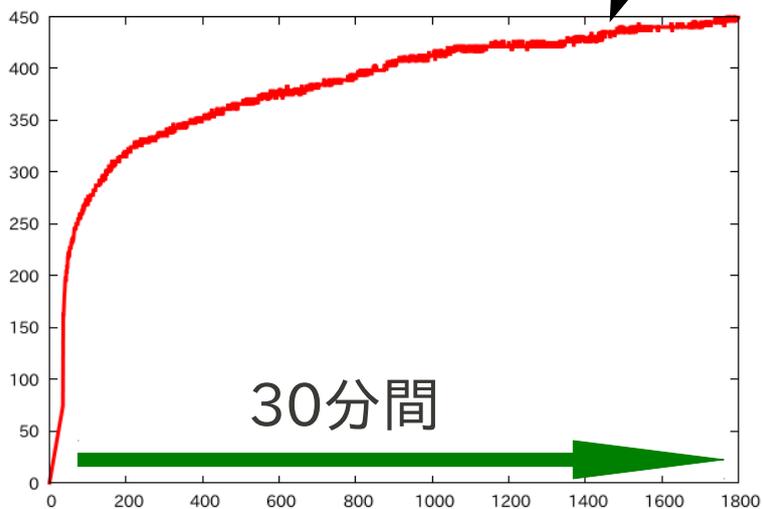
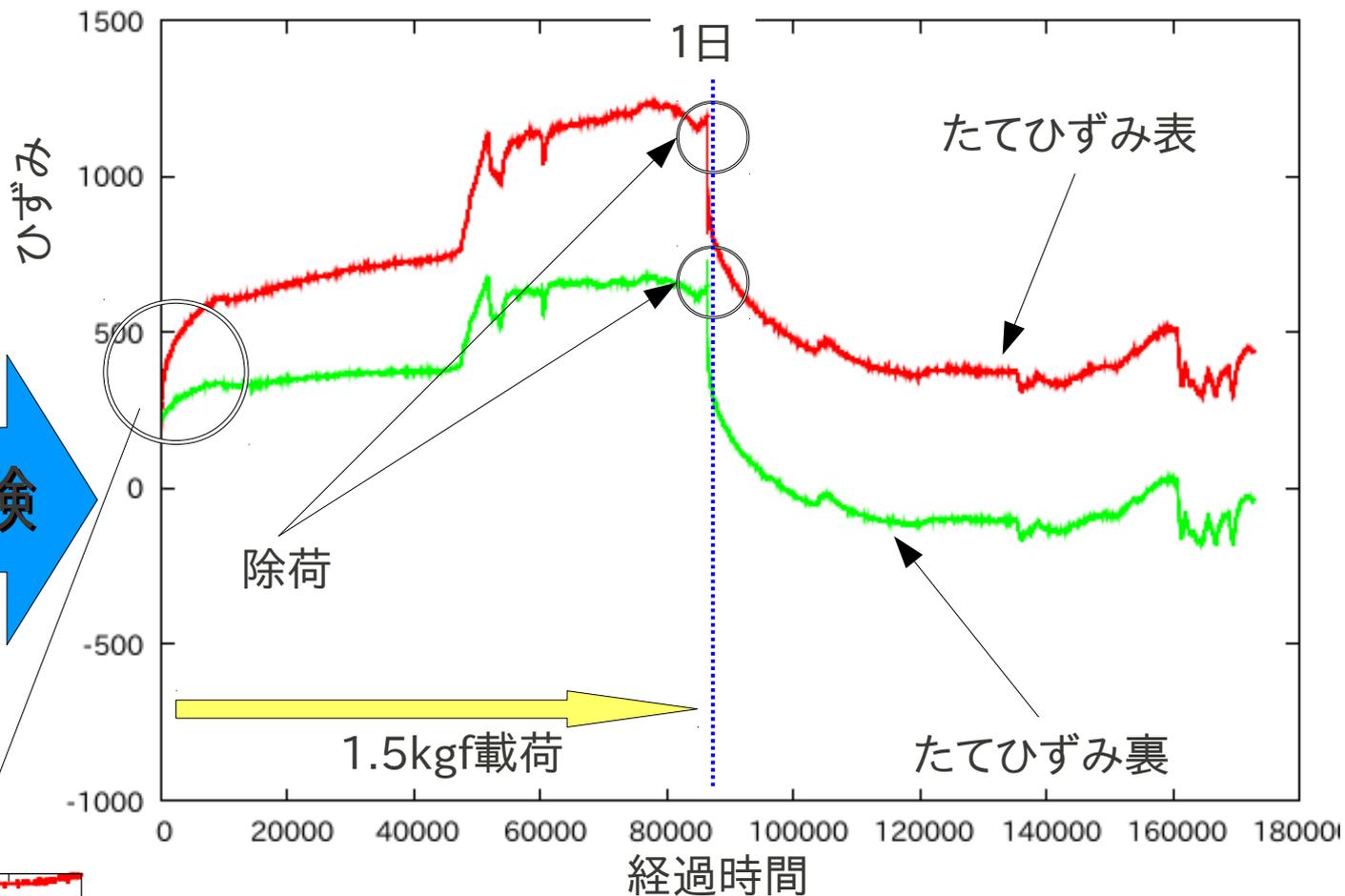
初期高さ

材料試験

Fullcure720



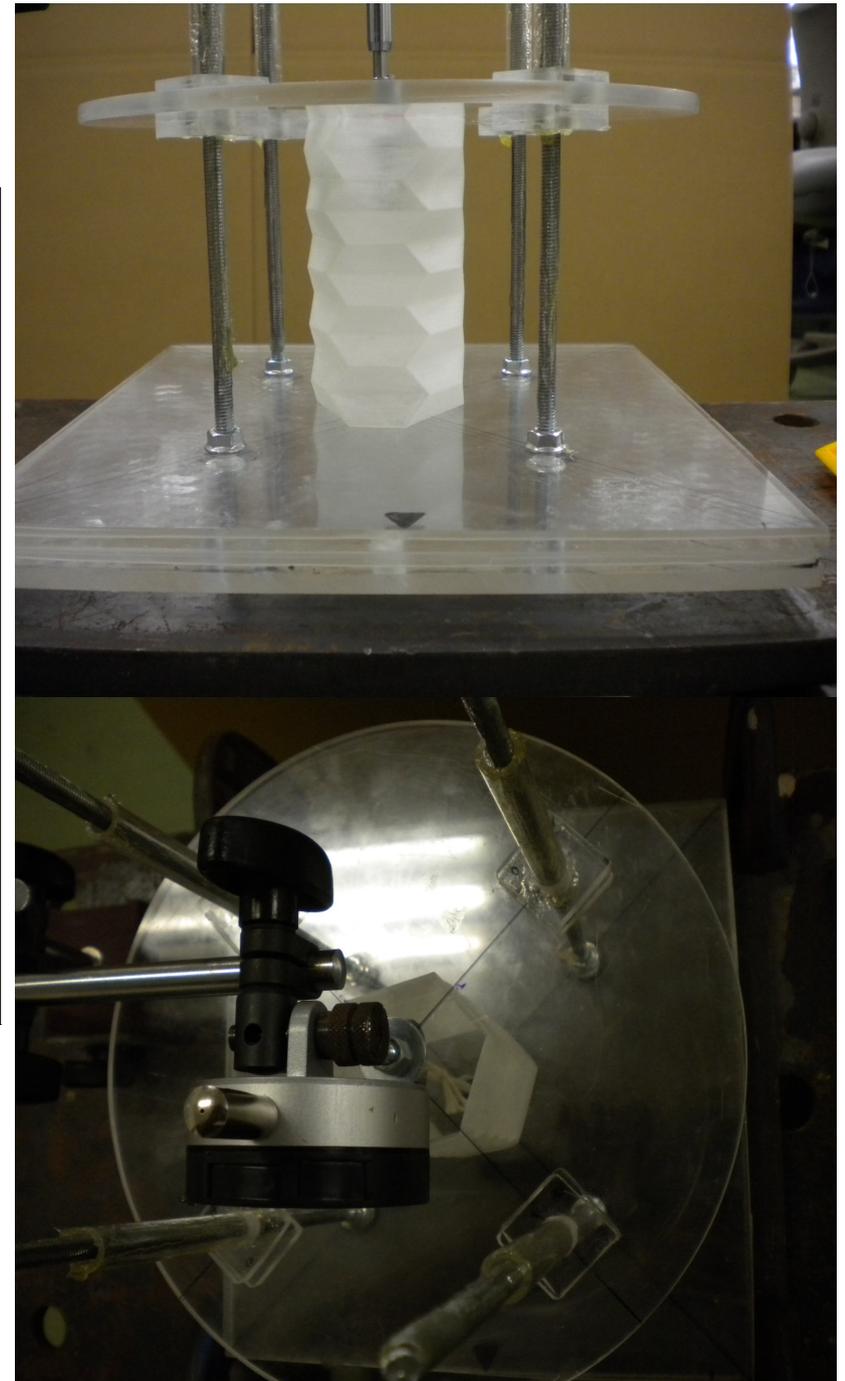
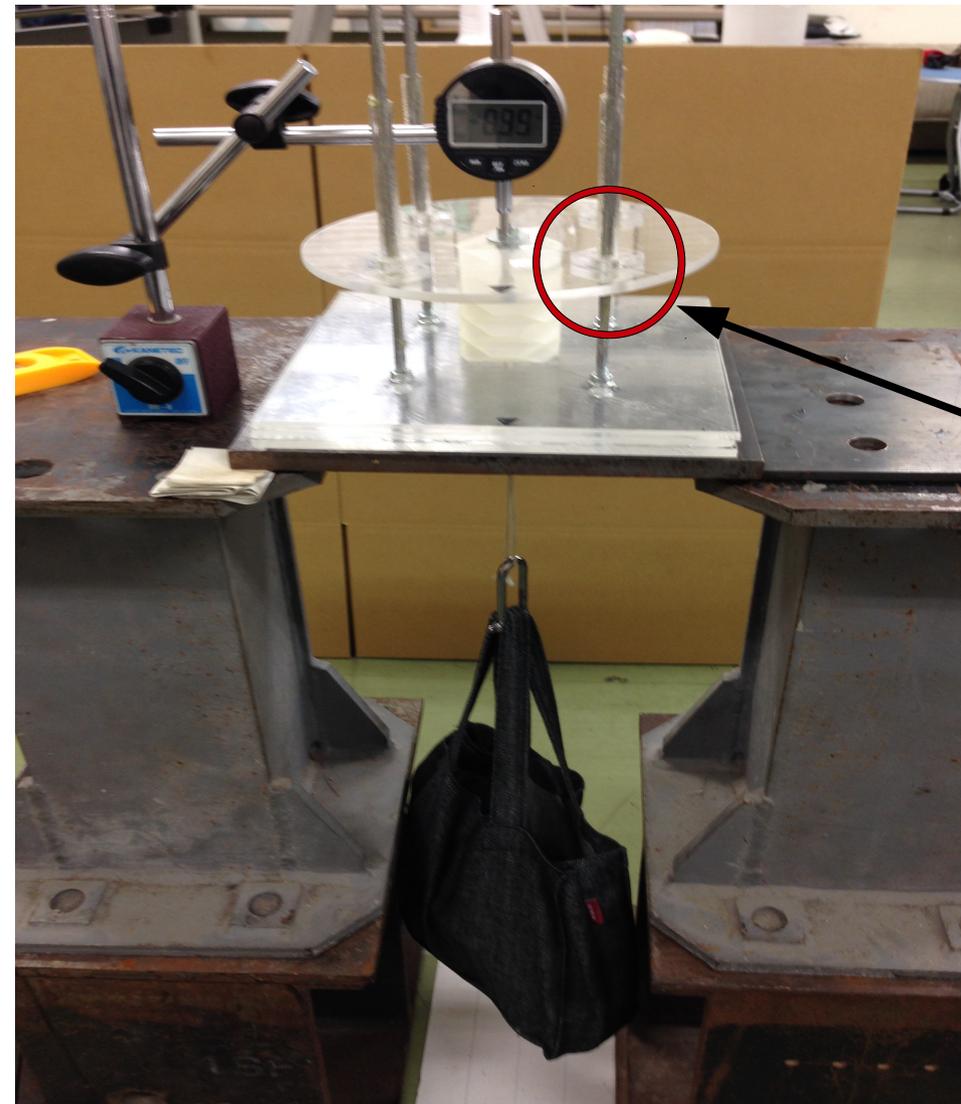
引張試験



経過日数	印刷直後	2日目	7日目	平均
30分ヤング率 [GPa]	1.138	1.447	1.599	1.395

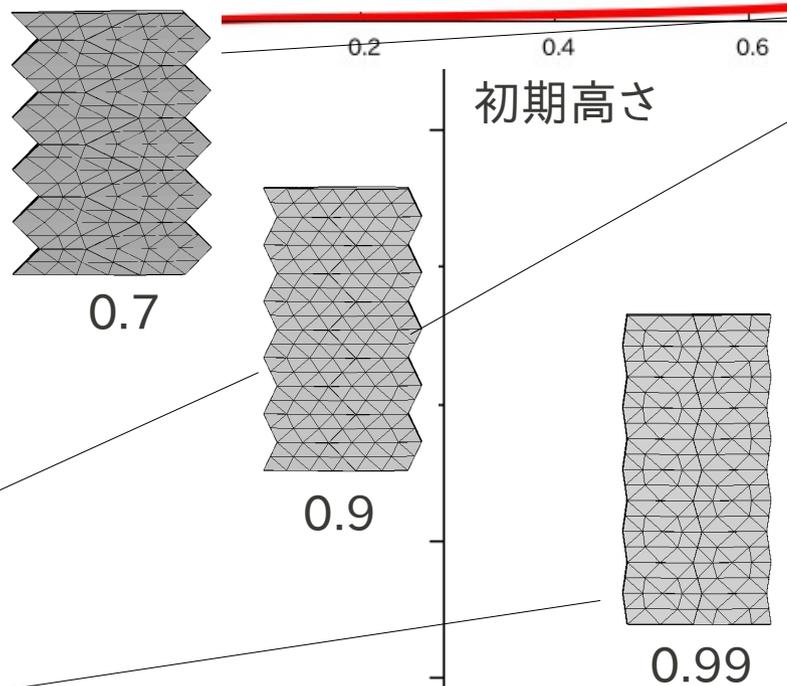
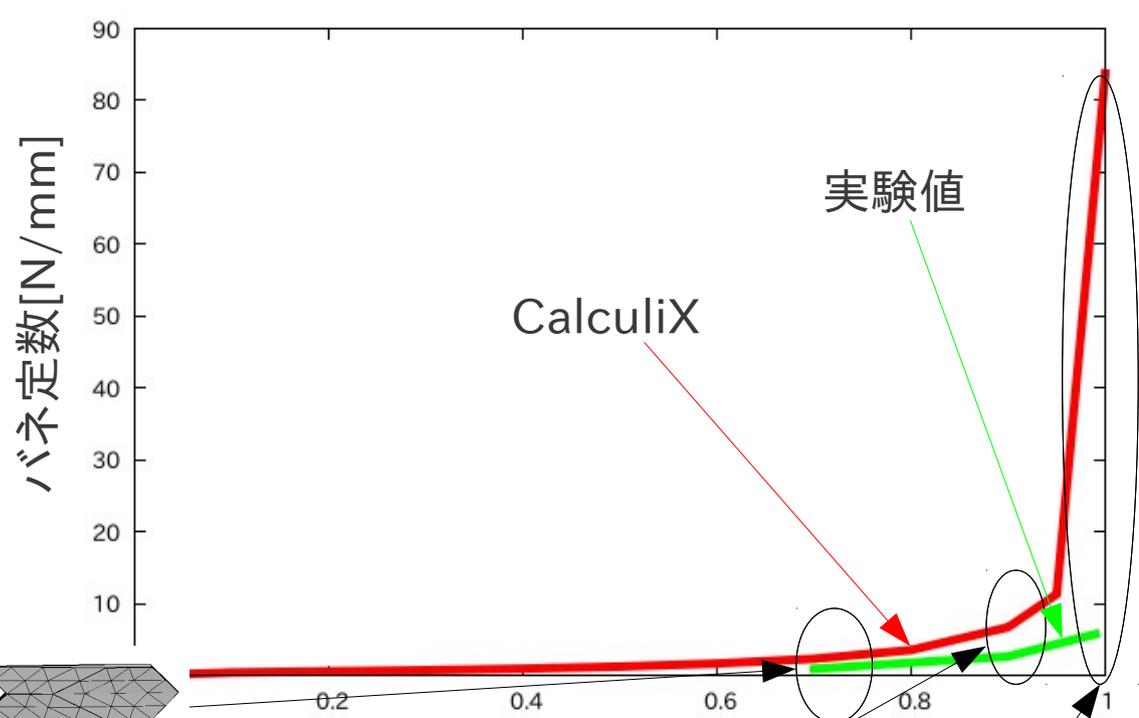
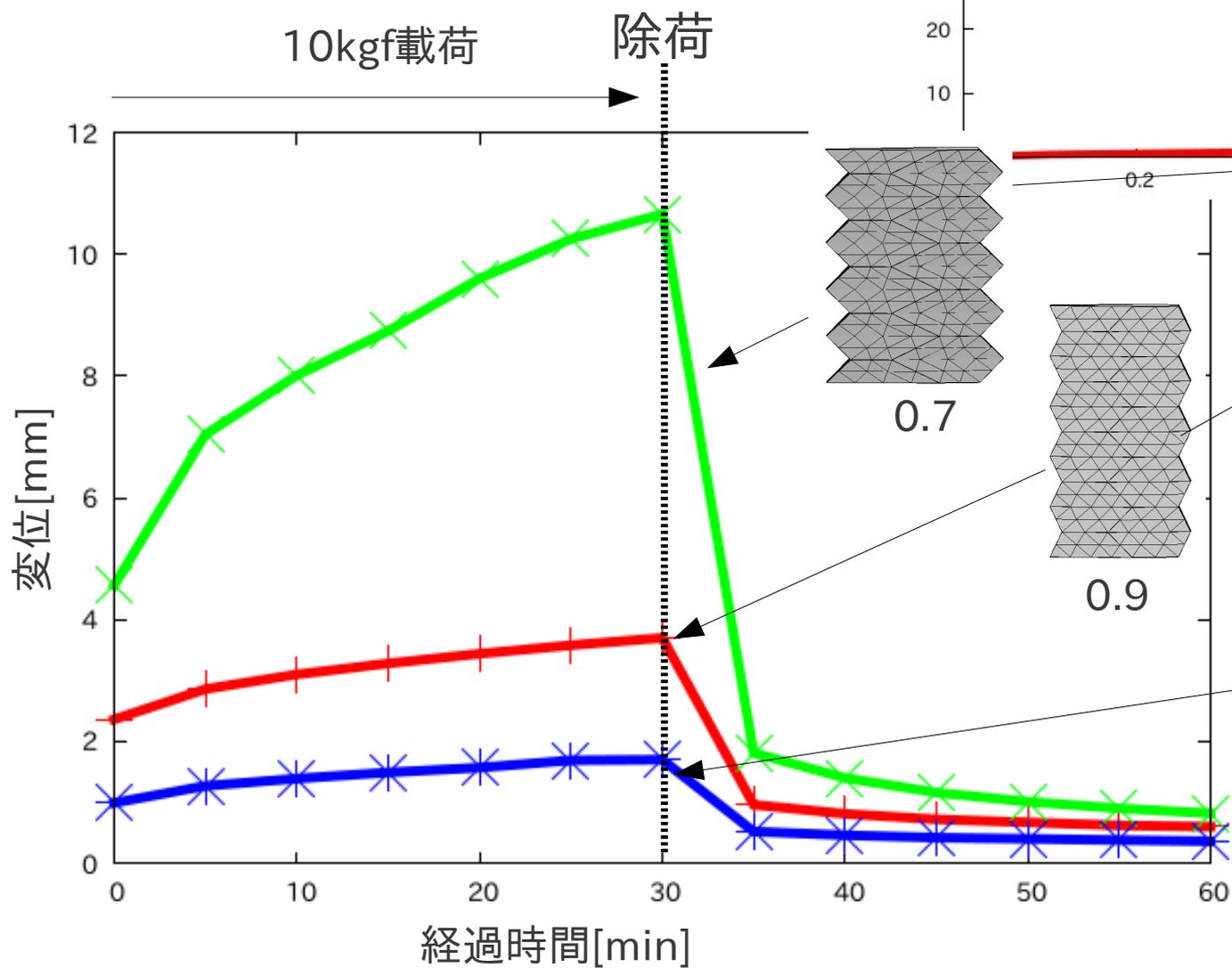
30分ヤング率=1.4GPa

載荷試験

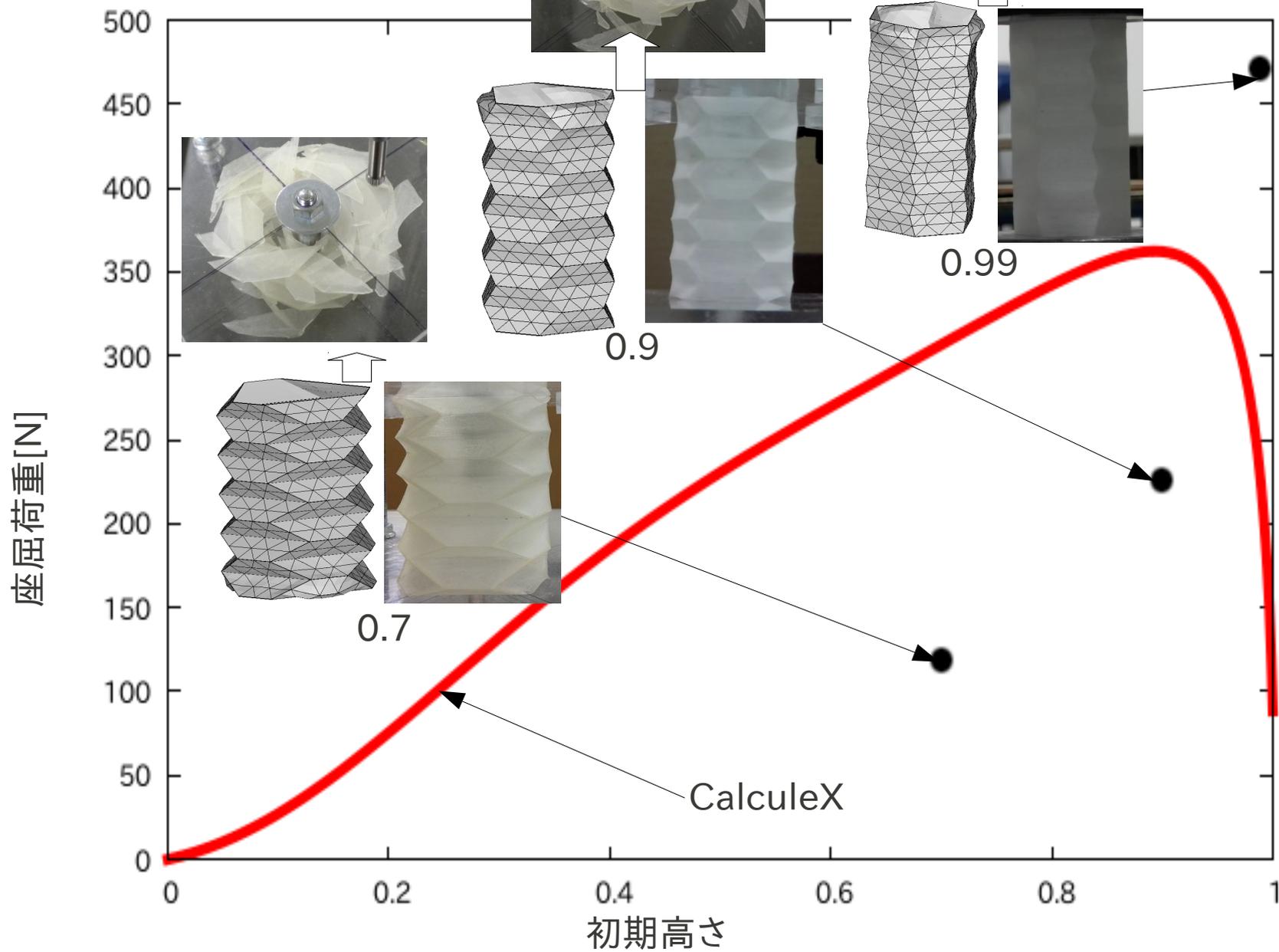


パイプ式実験装置

載荷試験結果



破壊試験



まとめ

