**The last set of plots has the best k value!!!!!!**

# System properties.

# k = 1.0873

AsigTr\_ = [0.0269]

Asiga\_ = [0.1152]

Avsig\_ = [0.00641,0.169]

AsigS\_ = [0.015561] # 0.00155

AD\_ = [1.2627,0.3543]

# k = 0.977

BsigTr\_ = [0.0274]

Bsiga\_ = [0.108]

Bvsig\_ = [0.0055,0.146]

BsigS\_ = [0.0157]

BD\_ = [1.2427,0.3543]

# k = 1.21

CsigTr\_ = [0.0263]

Csiga\_ = [0.119]

Cvsig\_ = [0.00746,0.186]

CsigS\_ = [0.0156]

CD\_ = [1.2627,0.3543]

# k = 1.44

DsigTr\_ = [0.0254]

Dsiga\_ = [0.1097]

Dvsig\_ = [0.00873,0.198]

DsigS\_ = [0.0155]

DD\_ = [1.2627,0.3543]

WsigTr\_ = [0.0494]

Wsiga\_ = [0.0197]

Wvsig\_ = [0.0,0.0]

WsigS\_ = [0.0494]

WD\_ = [1.13,0.16]

Z = 2000cm

D of fuel element = 20cm

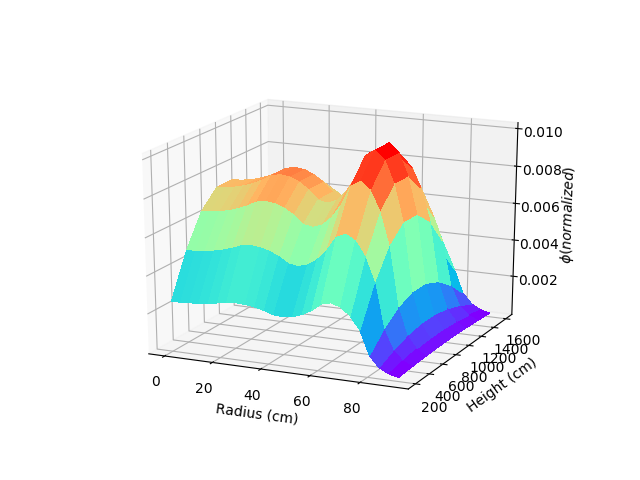
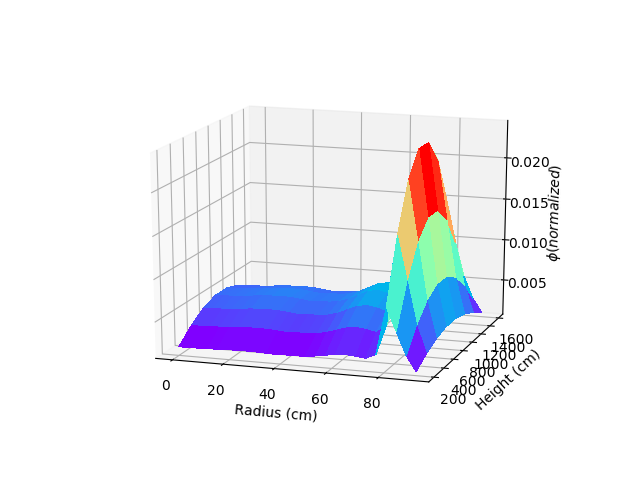
D of water = 15cm

5 mesh per element

10 mesh per In z

LoadingPattern = [FuelA,FuelC,FuelB,FuelD,Water]

K = 1.07494266252

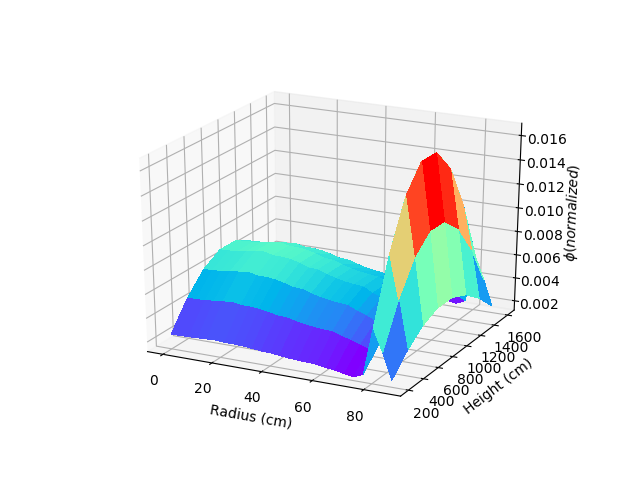


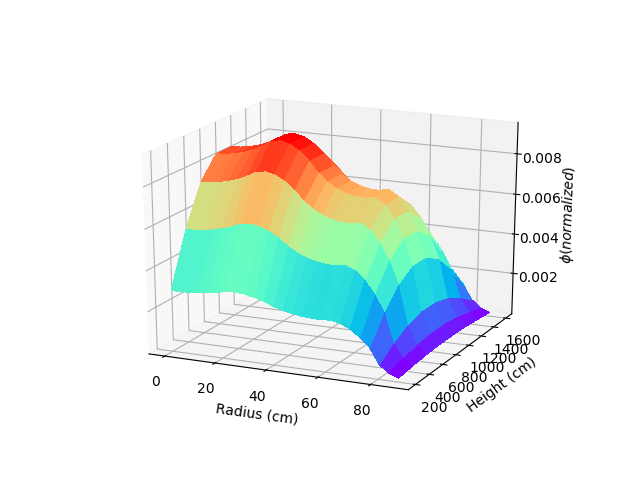
5 mesh per element

10 mesh per In z

LoadingPattern = [FuelB,FuelA,FuelB,FuelC,Water]

K = 1.00823848115



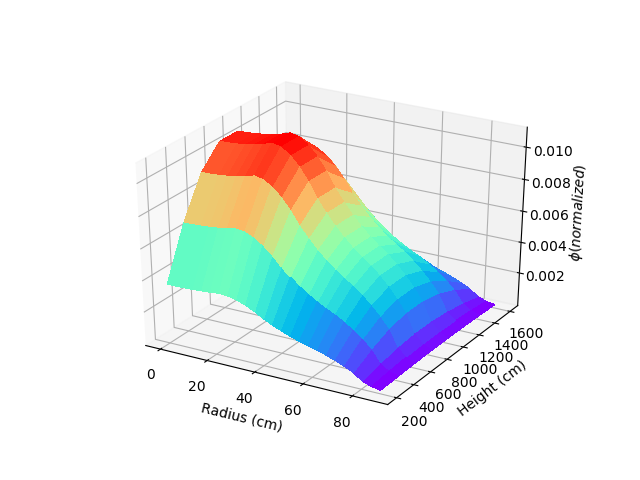
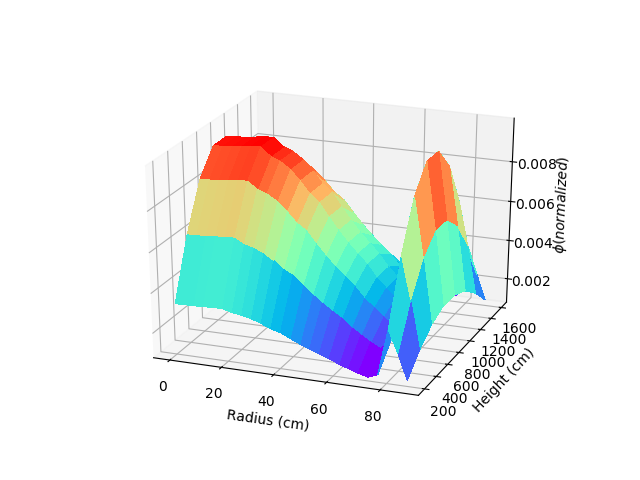


5 mesh per element

10 mesh per In z

LoadingPattern = [FuelB,FuelA,FuelB,FuelA,Water]

K = 0.996174846504

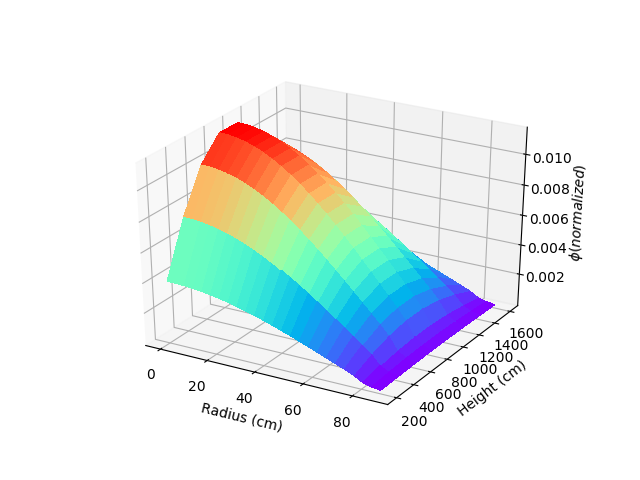
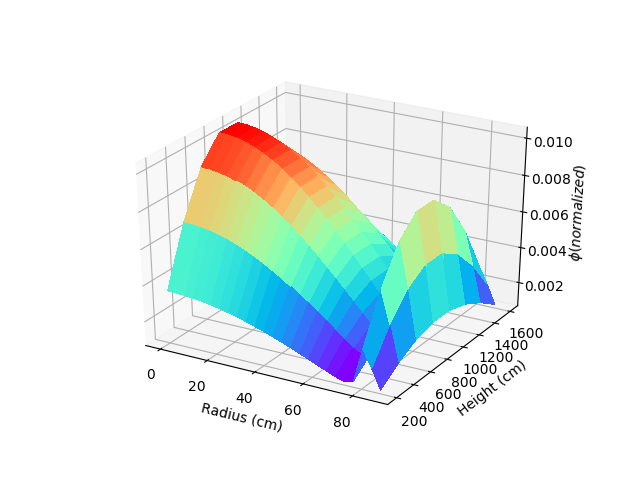


5 mesh per element

10 mesh per In z

LoadingPattern = [FuelD,FuelD,FuelD,FuelD,Water] All fresh

K = 1.20790060525

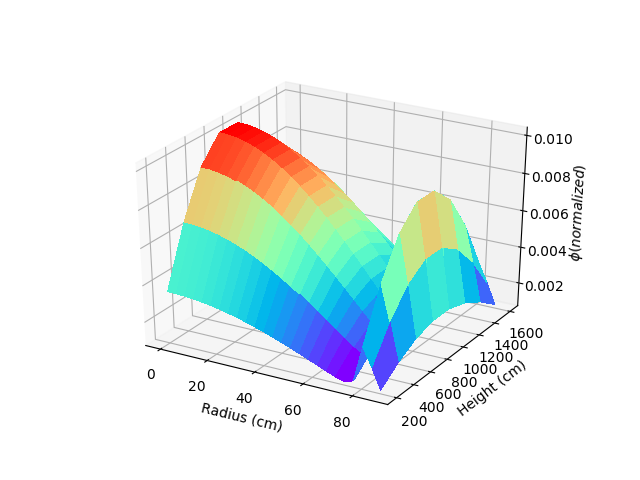


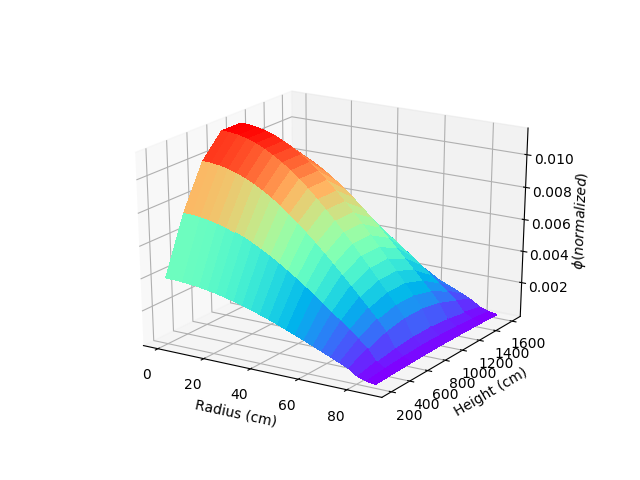
5 mesh per element

10 mesh per In z

LoadingPattern = [FuelB,FuelB,FuelB,FuelB,Water] Most burnt

K = 0.967264281277





Z = 2000cm

D of fuel element = 18cm

D of water = 15cm

5 mesh per element

10 mesh per In z

LoadingPattern = [FuelB,FuelA,FuelB,FuelC,Water]

K = 1.00253673468

