

# Biggest equal sized circles inside a unity circle

Solve the following optimization problem

Allocate N equal sized circles inside a unity circle. Try to maximize their radius.

max R

$$\forall_{i,j} \quad (x_i - x_j)^2 + (y_i - y_j)^2 \geq (R + R)^2$$

$$\forall_i \quad (x_i - 1)^2 + (y_i - 1)^2 \leq (1 - R)^2$$

