TU Delft

BEAM MECHANISM

all elements EI and M_p

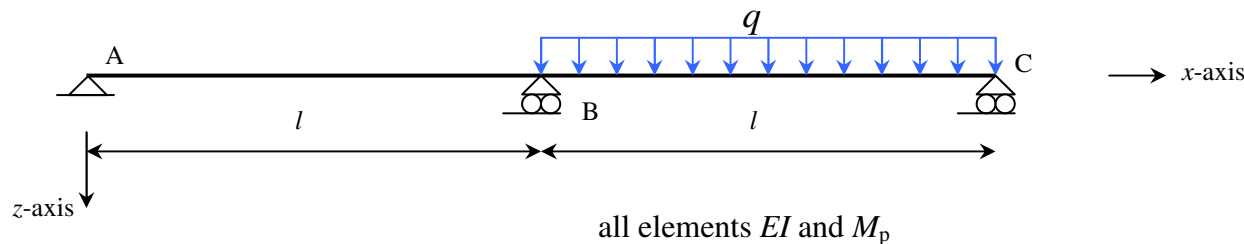**Question:**
- Find with virtual work the collapse load

    HINT:
    - Assume a plastic hinge at span BC at an unknown distance a from B

    - The lowest load is the collapse load therefor find the minimum for the expression of the load with respect to the variable a and thus the value of a and the collapse load q_p.

Answer
a=11.66M_p/l²