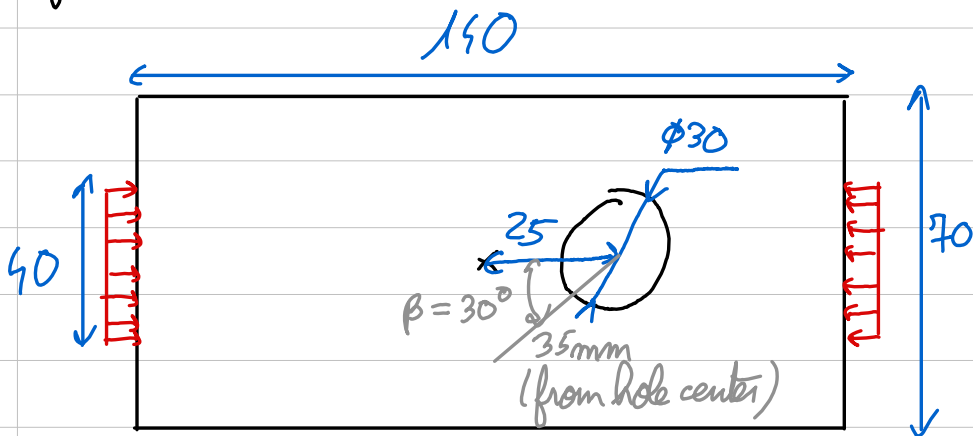


Mixed-mode PMMA by Peltoré (2018)

This small document covers the mesh creation for this example. Let us start by setting up the geometry of the specimen.

GEO



$x$  is the center thickness = 10 mm

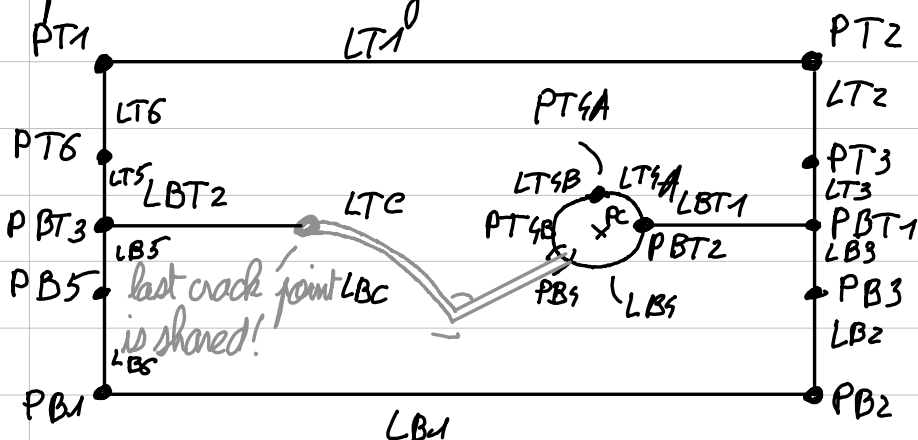
Figure 1: Geometry of the specimen.

MAT The material properties of the PMMA are: (perspex)

$$E = 3,2 \text{ GPa} , \quad \nu = 0,38 , \quad G_c \approx 430 \text{ J.m}^{-2}.$$

*assumed!* ✓

MESH To define the mesh, we need to split it into two parts (as usual with gmsh):



- no duplicate point  $\subset$  duplicated points

3- points and lines in gray  $\rightarrow$  in crack