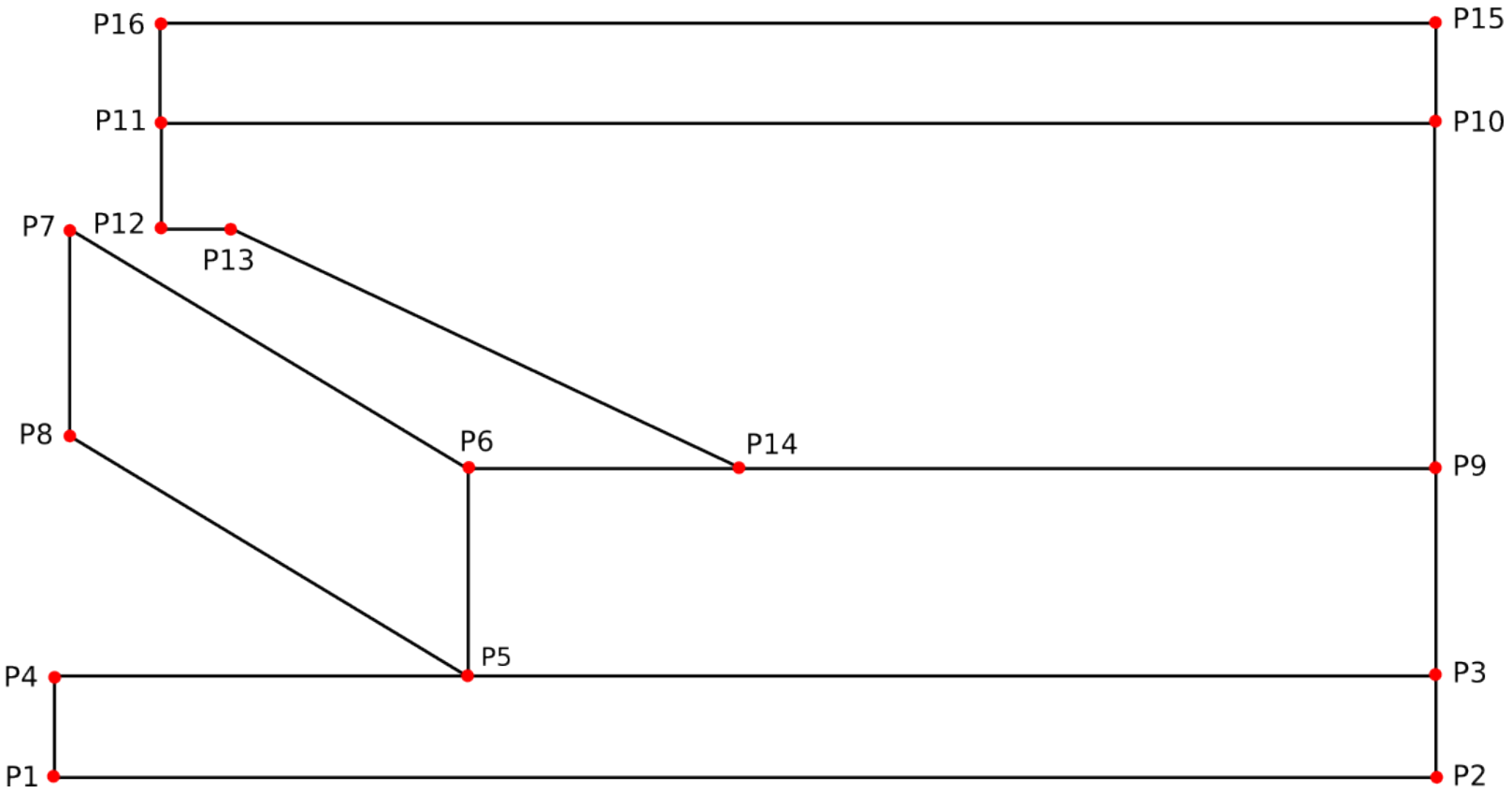
CloudPYME

Direct Current 2D

El proyecto CloudPYME (id: 0682_CLOUDPYME2_1_E) está cofinanciado por la Comisión Europea a través de el Fondo Europeo de Desarrollo Regional (FEDER), dentro de la tercera convocatoria de proyectos del Programa Operativo de Cooperación Transfronteriza España-Portugal 2007-2013 (POCTEP).

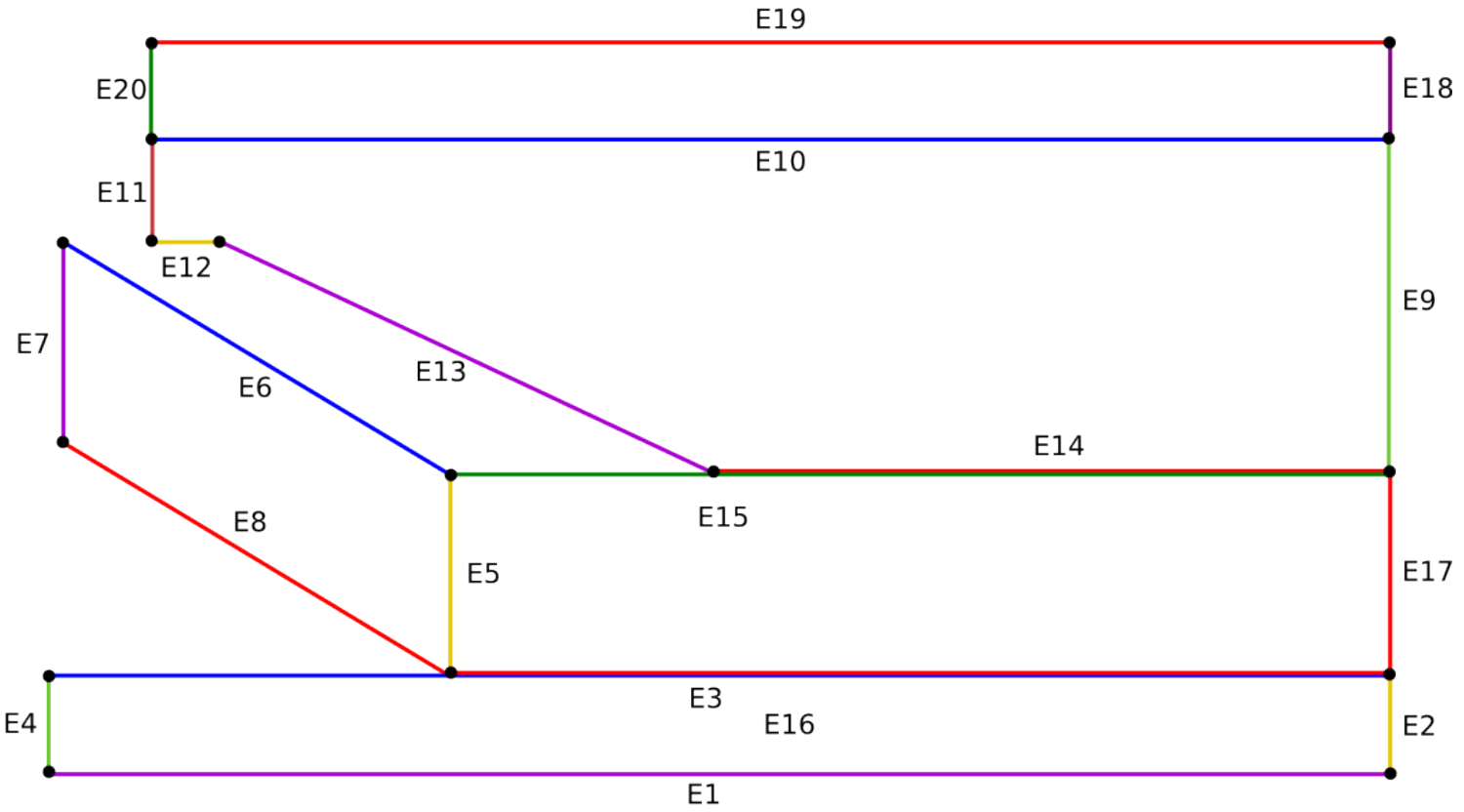
Direct Current 2D: Geometry

P1 = (0 , 0)
P2 = (2 , 0)
P3 = (2 , 0.15)
P4 = (0 , 0.15)
P5 = (0.6 , 0.15)
P6 = (0.6 , 0.45)
P7 = (0.02 , 0.8)
P8 = (0.02 , 0.5)
P9 = (2 , 0.45)
P10 = (2 , 0.95)
P11 = (0.15 , 0.95)
P12 = (0.15 , 0.8)
P13 = (0.25 , 0.8)
P14 = (1 , 0.45)
P15 = (2 , 1.1)
P16 = (0.15 , 1.1)



Direct Current 2D: Geometry

E1 = LINE(P1 , P2)
E2 = LINE(P2 , P3)
E3 = LINE(P3 , P4)
E4 = LINE(P4 , P1)
E5 = LINE(P5 , P6)
E6 = LINE(P6 , P7)
E7 = LINE(P7 , P8)
E8 = LINE(P8 , P5)
E9 = LINE(P9 , P10)
E10 = LINE(P10 , P11)
E11 = LINE(P11 , P12)
E12 = LINE(P12 , P13)
E13 = LINE(P13 , P14)
E14 = LINE(P14 , P9)
E15 = LINE(P9 , P6)
E16 = LINE(P5 , P3)
E17 = LINE(P3 , P9)
E18 = LINE(P10 , P15)
E19 = LINE(P15 , P16)
E20 = LINE(P16 , P11)



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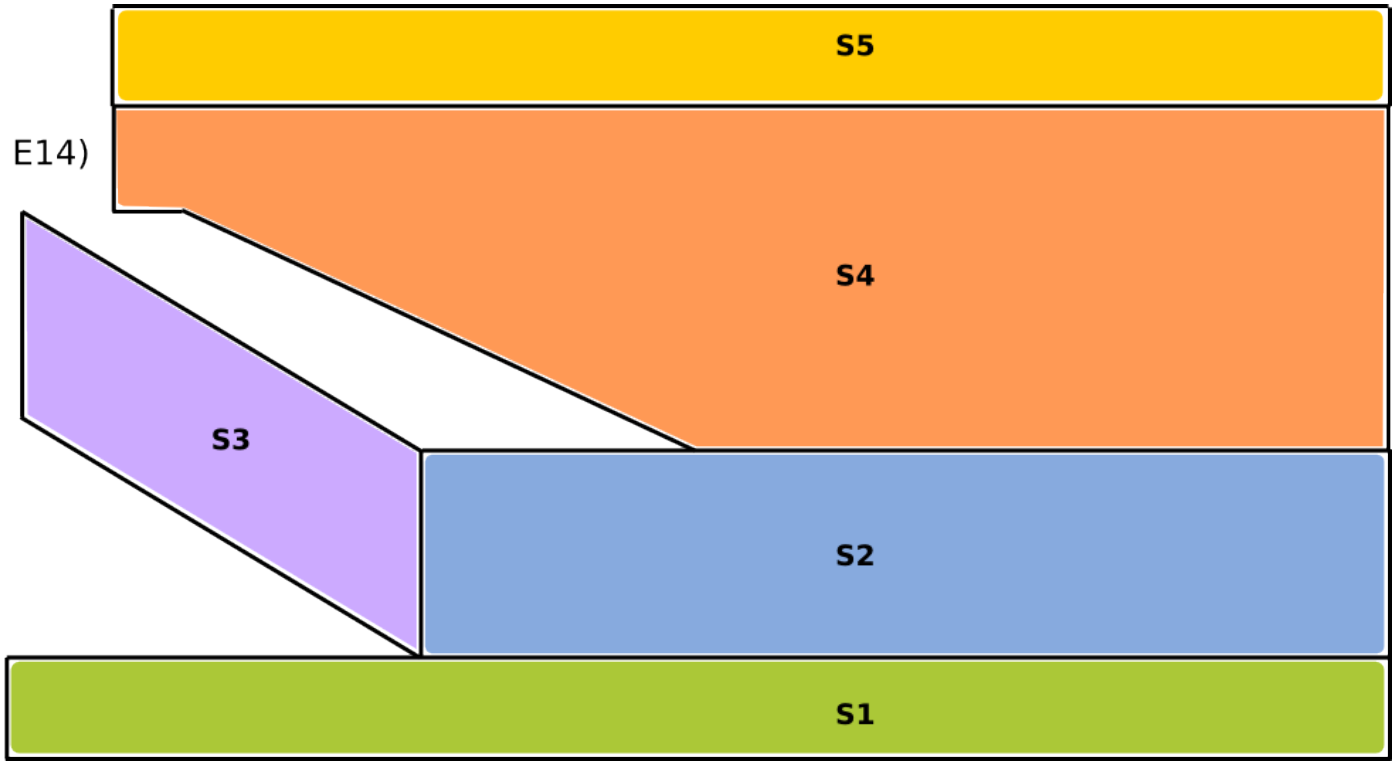
Direct Current 2D: Geometry

S1 = FACE(E1 , E2 , E3 , E4)
S2 = FACE(E4 , E15 , E16 , E17)
S3 = FACE(E5 , E6 , E7 , E8)
S4 = FACE(E9 , E10 , E11 , E12 , E13 , E14)
S5 = FACE(E10 , E18 , E19 , E20)



Direct Current 2D: Geometry

Material	Electrical conductivity
Bath	1.e3
Liquid aluminium	7.69e7
Rammed paste	1.78e4
Cathodic block	2.7e4
Collector bar	1.67e6

FUSE = + + + +

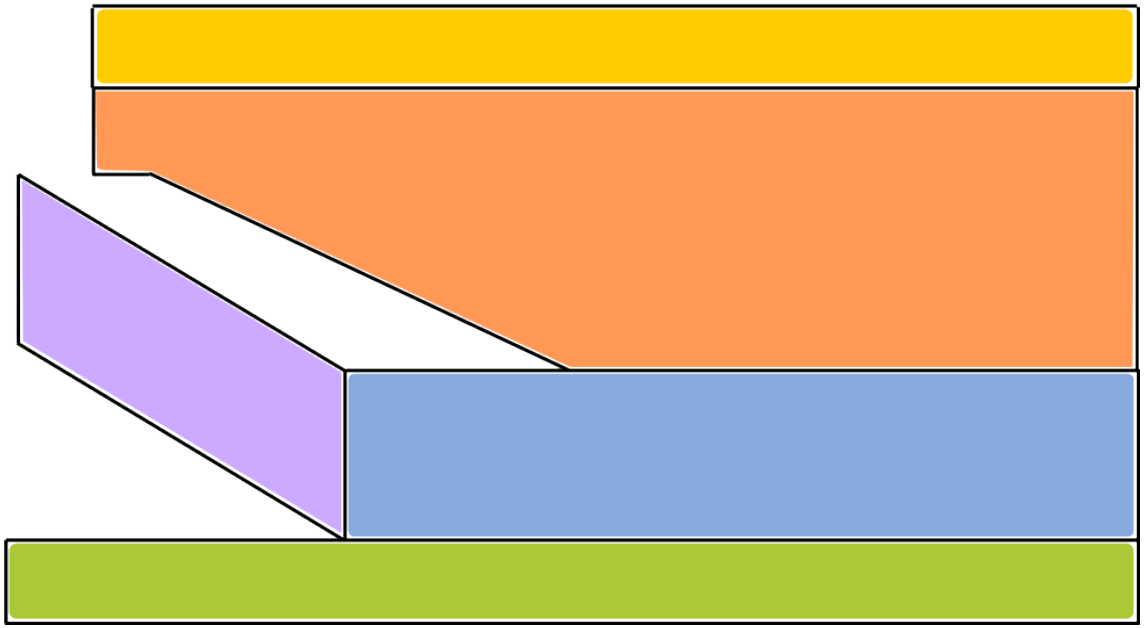
= Bath

= Liquid aluminium

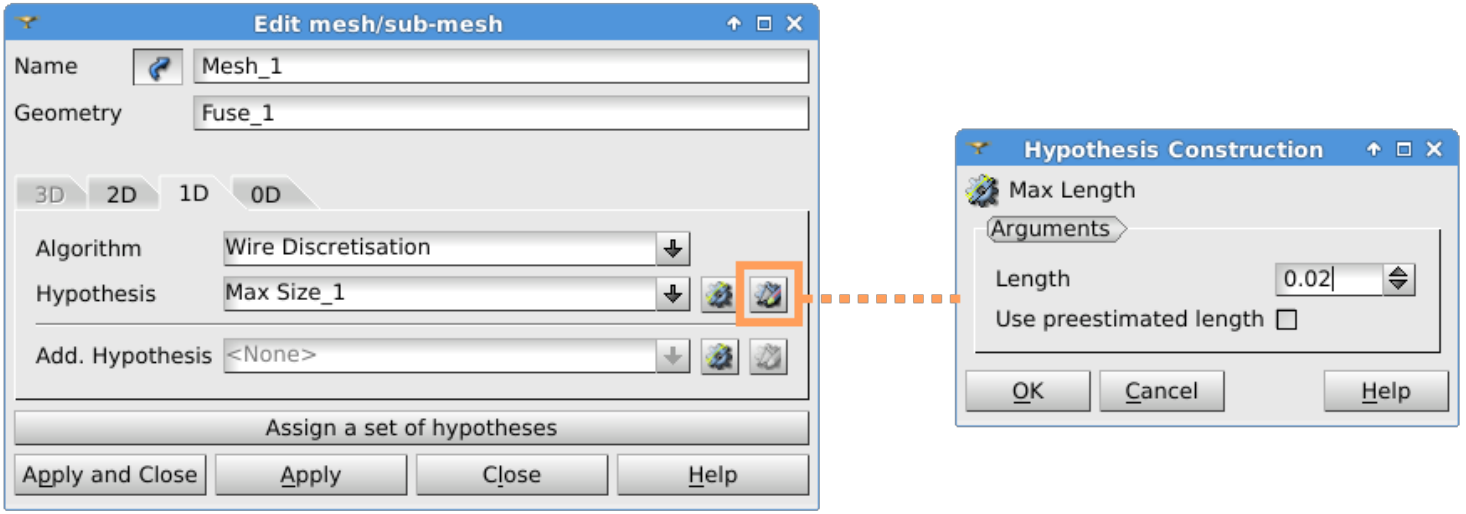
= Rammed paste

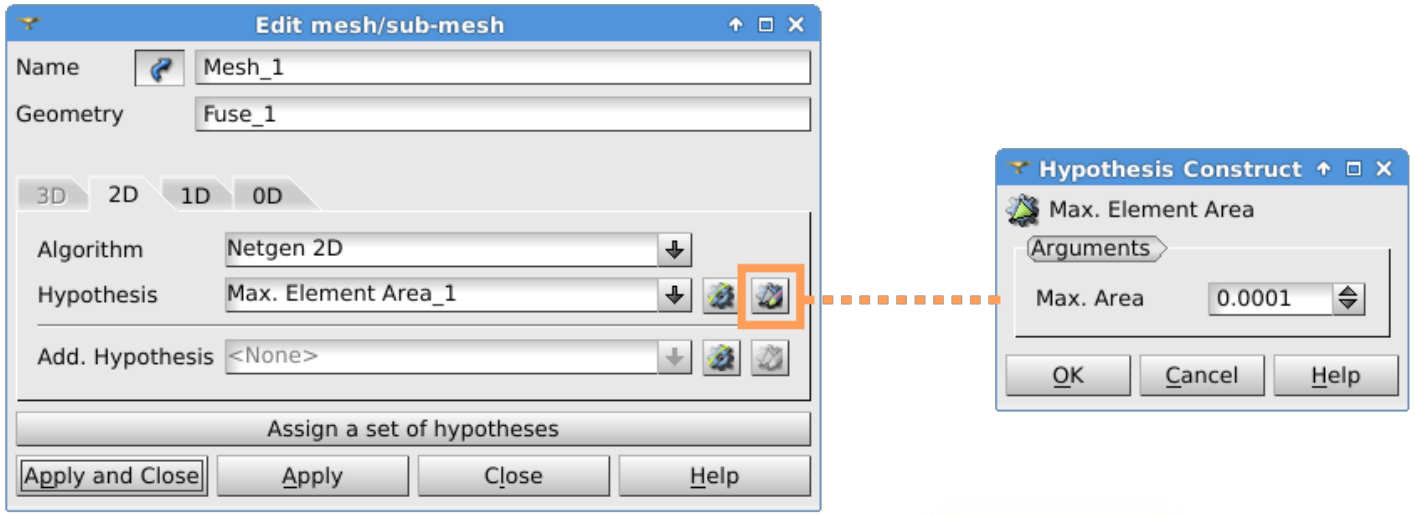
= Cathodic block

= Collector bar



Direct Current 2D: Mesh





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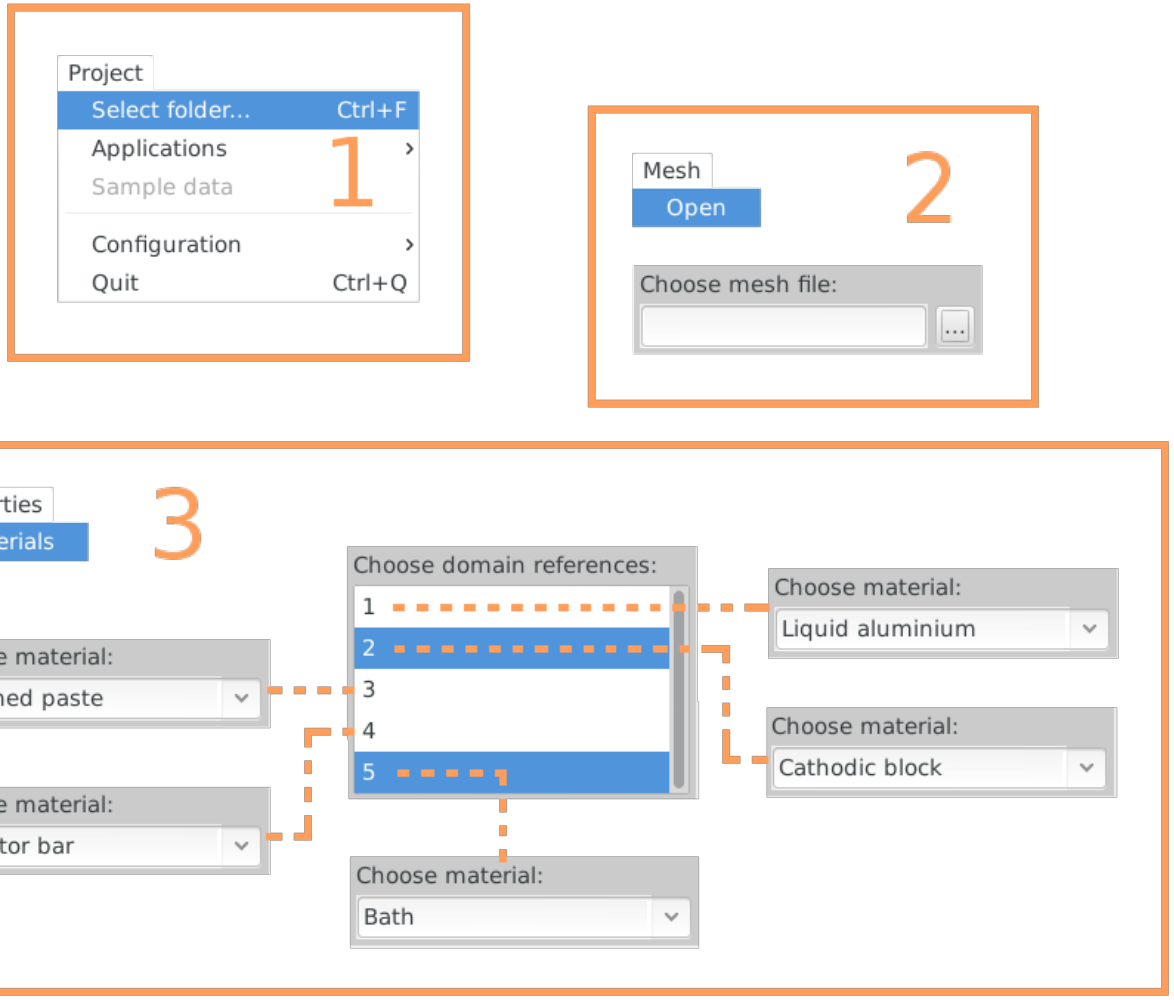
Direct Current 2D: MaxFEM



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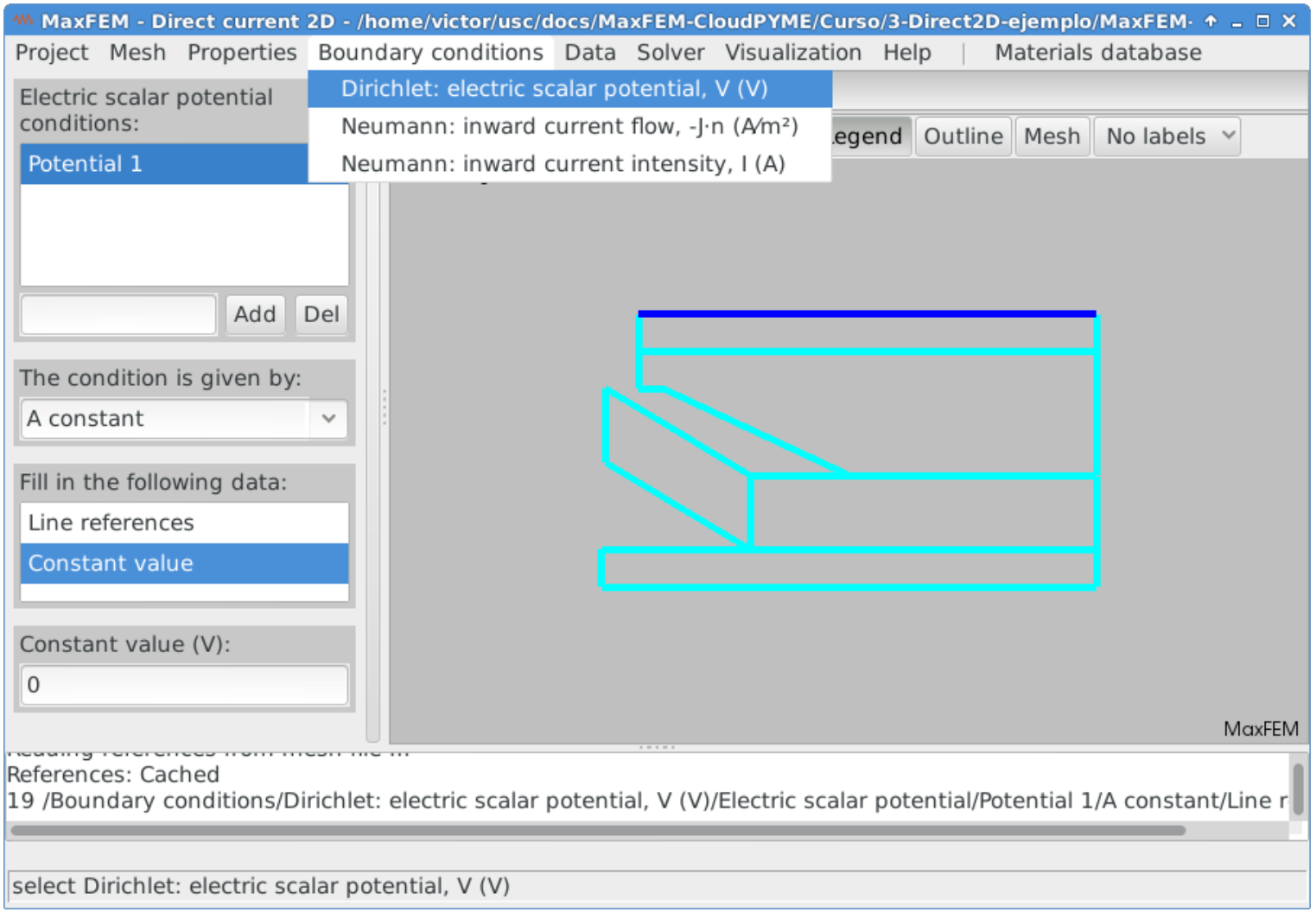
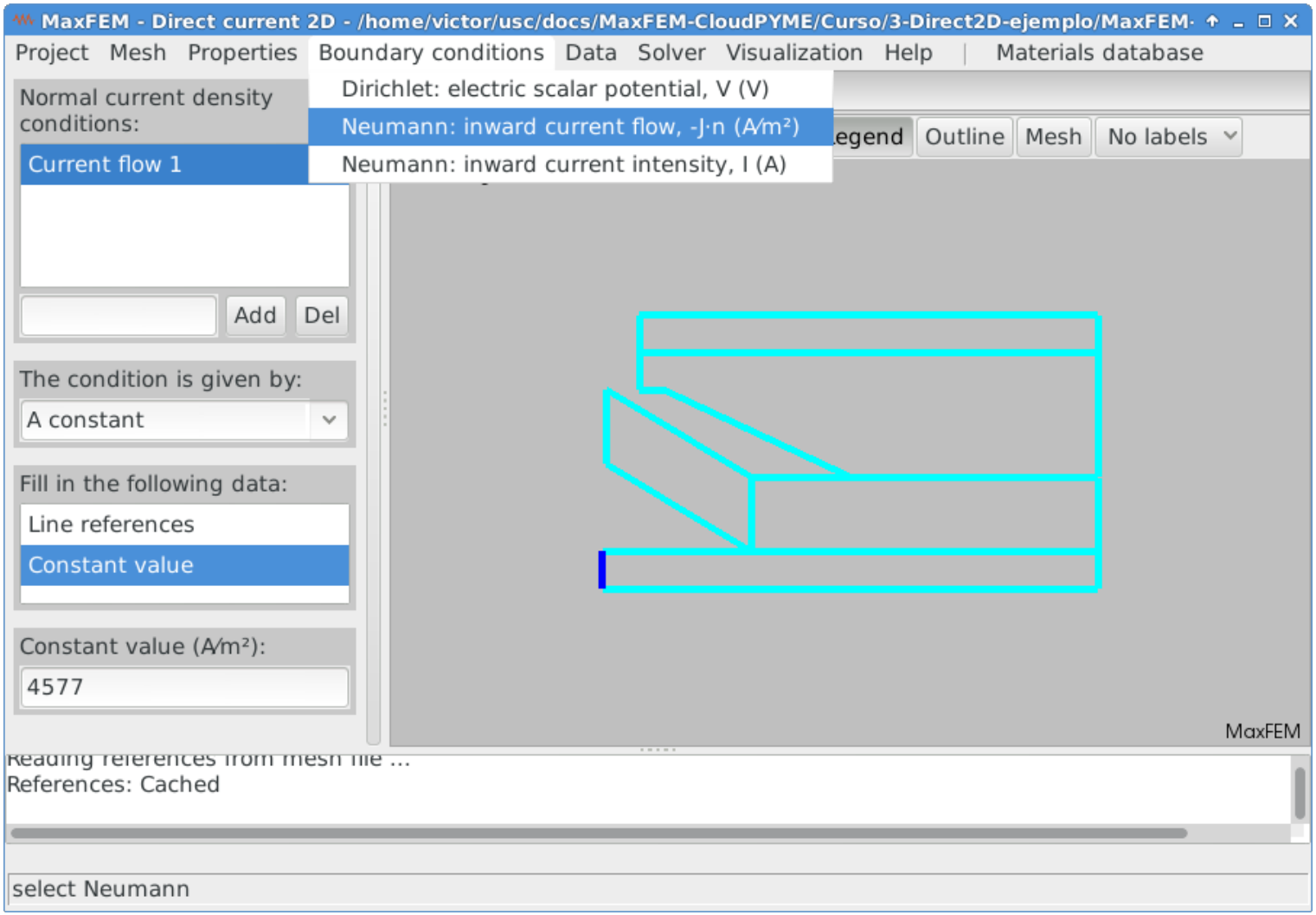
Direct Current 2D: MaxFEM



Direct Current 2D: MaxFEM



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