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## On mixed Dirichlet-Neumann eigenvalues of triangles

### **Abstract:**

We consider a fixed triangular domain and various mixed Dirichlet–Neumann eigenvalue problems on that domain. We are interested in the dependence of the smallest eigenvalue of the problem on the choice of the sides for the Dirichlet boundary. It turns out that the longer the Dirichlet side the higher the eigenvalue. Similarly with two Dirichlet sides.