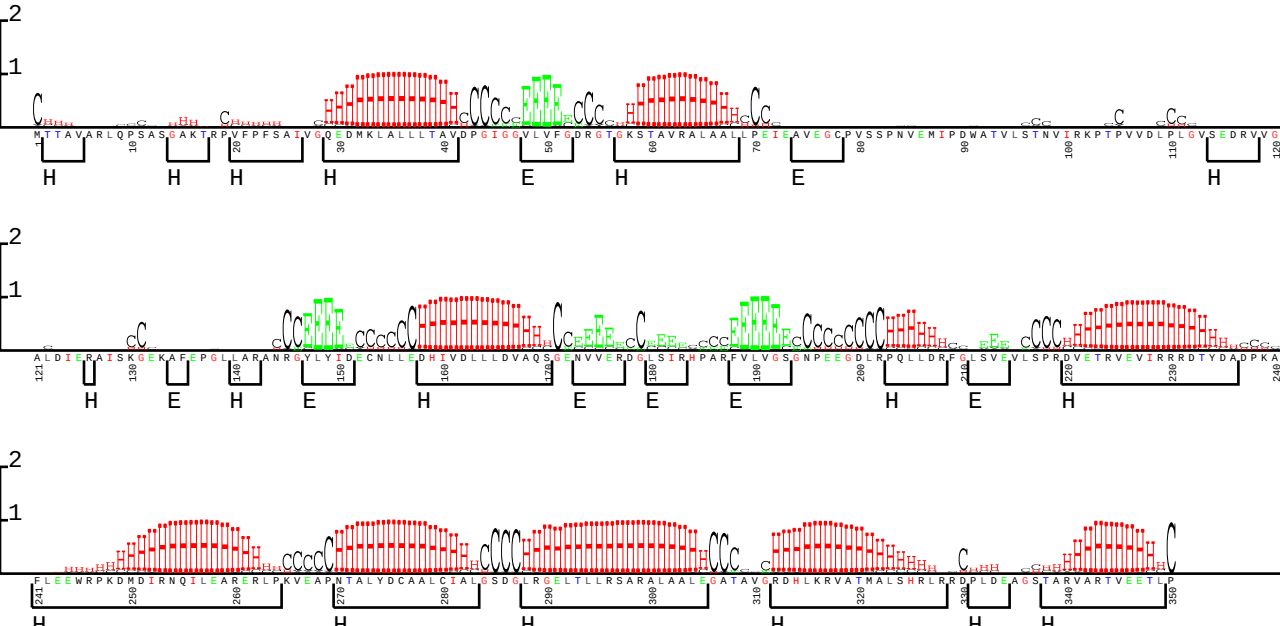T0127 t2k 2d model