

The preamp housing in the triplet prototype is 243 mm in diameter. By the scaling rule which minimizes lead length from preamps to electrodes, the quadruplet module's preamp housing should be $243 * 1.5 = \sim 364$ mm in diameter. The modules are 36° , or very nearly, apart. Following our scaling rule set, the LN tank goes from 250 mm to 300 mm, and the flange, to maintain a nice diametral margin, would go to ~ 400 mm diameter. What sort of support sphere radius do we need so that the flanges don't clash and there is sufficient sphere material between the holes through which the preamps pass?

