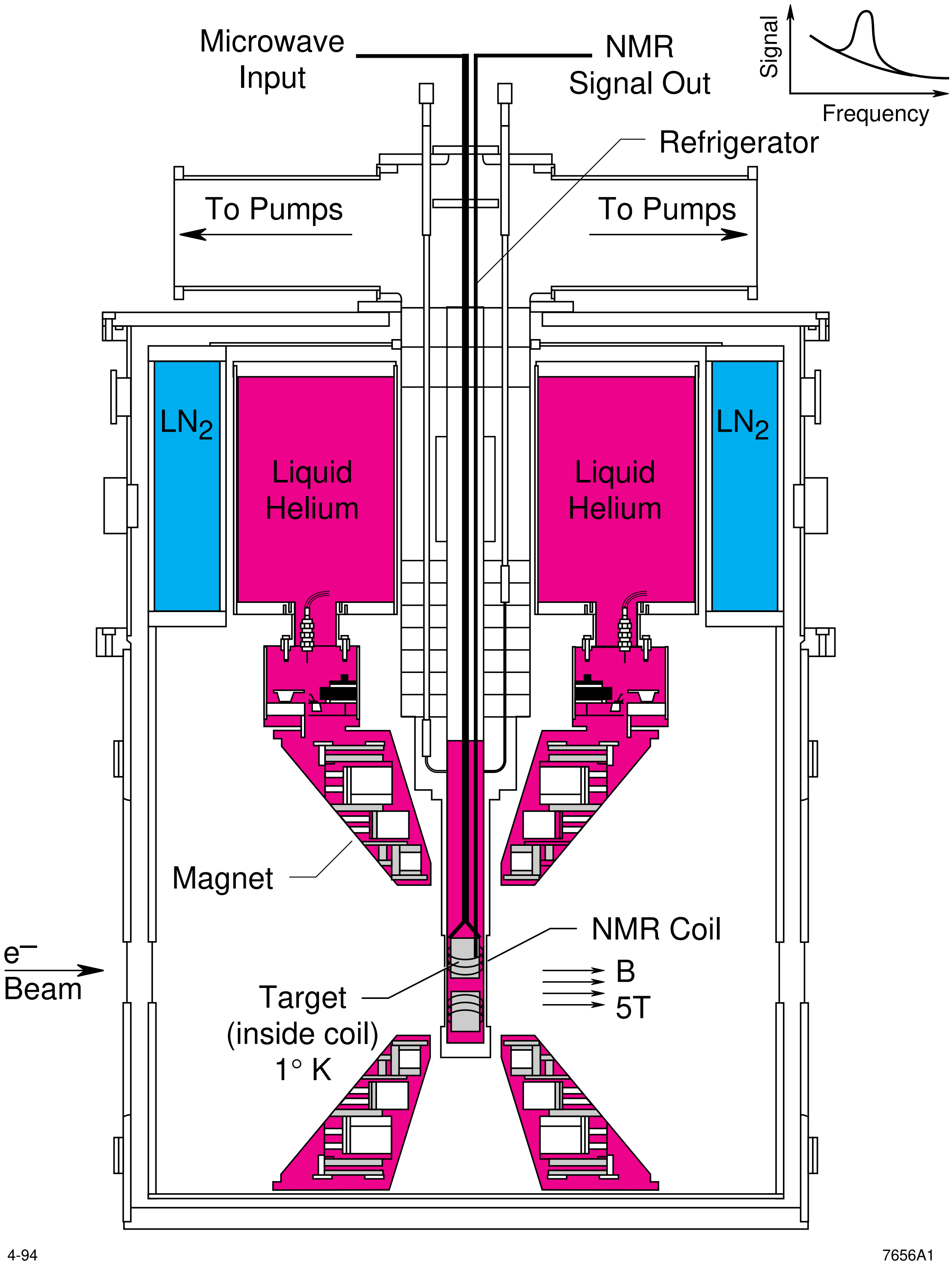

Schematic of the polarized NH3/ND3/LiD target. The solid cryogenic target relies on 140 GHz microwave power, 1° K temperature by evaporation of liquid He4, and 5 Tesla magnetic field to polarize the protons/deuterons (Dynamic Nuclear Polarization). Liquid He4 circulates through the cells to cool the material in the presence of beam. Two cells are located in the target, allowing for measurements of protons and deuterons by a simple vertical motion of the target cells. A NMR system serves to measure the proton or deuteron polarization.