LIPAc Progress over the past two year:

(1) 8 RF chains (175MHz, 200kW for each) were connected to the RFQ with 8 coaxial waveguides, and RF conditioning has been started.

(2) A simultaneous power injection from 8 RF chains into the RFQ and careful conditioning, a required RF filed for the 5MeV deuteron beam acceleration was obtained at 20 us pulse.

(3) The first proton beam acceleration of 2.5MeV in RFQ has been successfully conducted in June 2018.

(4) Good sign of RFQ design validity was obtained (transmission >90%, output energy 2.5 MeV, beam current up to 35 mA at H+ beam)

(5) 50 keV/70 mA p and 100 keV/140 mA d beams satisfy RFQ input emittance < 0.25π mm mrad

(6) RF conditioning of RFQ required for the high current D+ beam

This results will give us successful IFMIF/EVEDA Project !!