Radon daughter isotope $^{214}\text{Bi}$ ($Q_\beta = 3.27$ MeV) can mimic $0\nu\beta\beta$ of $^{82}\text{Se}$ ($Q_{\beta\beta} = 3$ MeV).

Target gas radiopurity: $A^{(222}\text{Rn}) < 0.15$ mBq/m$^3$
Tracker activity measurement result: 2.72 ± 0.31 mBq/m³

Radon Suppression Factor:

\[ S = \frac{1}{(\phi \tau / V) + 1} \]

Flushing clean gas at 2m³/hr, Demonstrator target reached!

SuperNEMO tracker gas contains 4% ethanol which may affect radon emanation rate.

Fang Xie and Christophe Hugon, on behalf of the SuperNEMO collaboration