

# Applications of Crystals and Nanotubes for Acceleration and Manipulation, 11-12 March HYBRID Workshop (65% Virtual)



10 live participants

19 remote participants

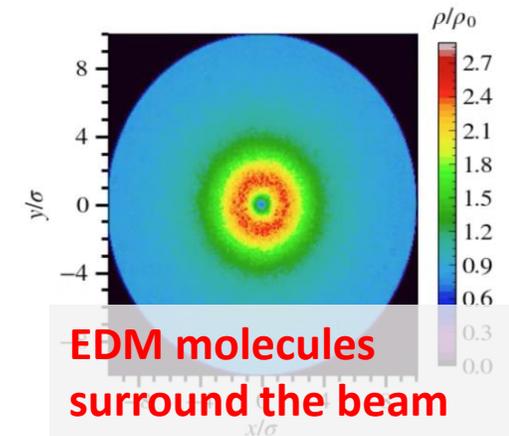
live → hybrid → virtual

# Trapping of Neutral Molecules or Flakes with EDM or MDM by the Electromagnetic Beam Field - ARIES joint GSI-CERN-KEK study motivated by LHC "16L2" phenomenon

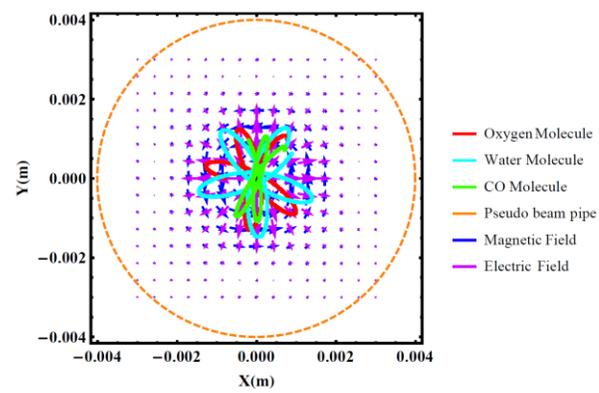
paramagnetic and polar air molecules

Molecule	EDM [D]	MDM [BM]	m [amu]
H <sub>2</sub> O	0.39	0	18
O <sub>2</sub>	0	2.8	32
CO	0.025	0	28
N <sub>2</sub>	0	0	28
CO <sub>2</sub>	0	0	44

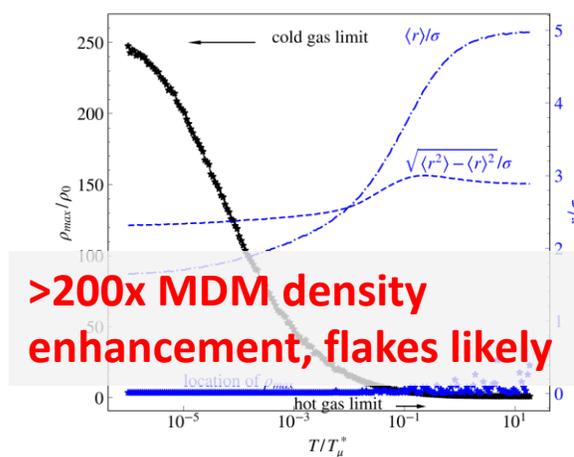
simulated distribution of EDM molecules around LHC beam



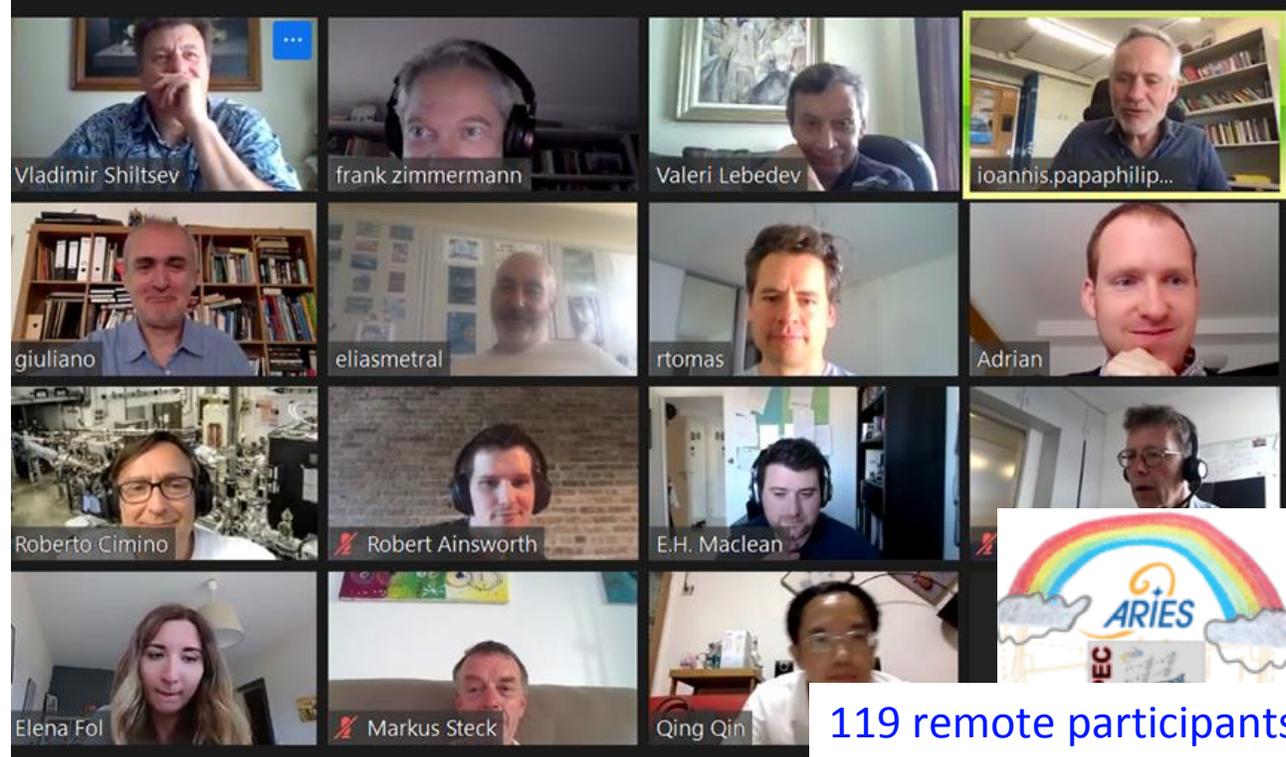
motion of EDM & MDM molecules



variation of radial density distribution of EDM molecules with normalized temperature



# Mitigation Approaches for Hadron Storage Rings and Synchrotrons 22 June to 1 July - 100% VIRTUAL Workshop



119 remote participants