

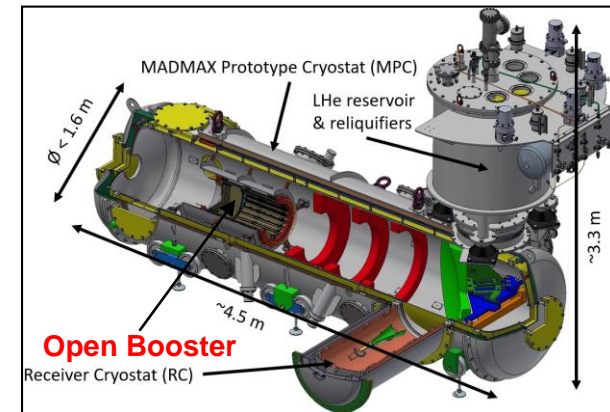
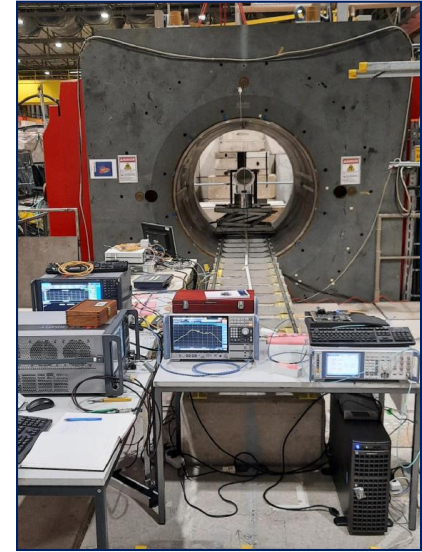
MADMAX status and plans 2024

❑ Pursue prototype tests with CERN Morpurgo magnet

- Ongoing (Feb/March 2024): test of closed booster (fixed disks $\phi = 200$ mm) **at warm**
- Test (March 2023) of closed booster (fixed disks $\phi = 100$ mm) **at cold** using a 'cheap' cryostat developed with CERN cryolab
- **Publish** first competitive ALP limits at $O(80) \mu\text{eV}$

❑ Finalise design and build 'final' prototype

- First **open booster** (fixed disks $\phi = 300$ mm) run over Christmas at SHELL (UHH Hamburg) \rightarrow limits on dark photons to come
 - Next: open booster with **moving disks** (using piezo motors), to validate booster mechanics and scan ALP mass
 - Insertion in a **cryostat** (to be delivered at DESY in Spring 2024)
 - Prepare long cold run + **mass scan** at CERN (2026)
- + Approval of MPG funds for two **magnet** test coils.



\rightarrow Gradually build the final booster & magnet design + do physics