Preparation of CNAO2023_MC simulation campaign

G. Battistoni, S. Muraro

INFN Milano

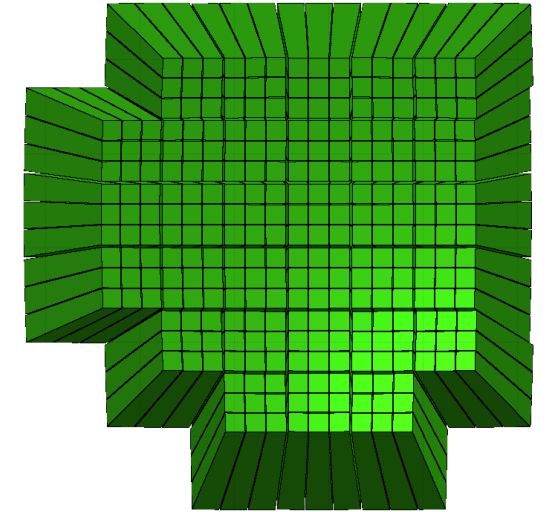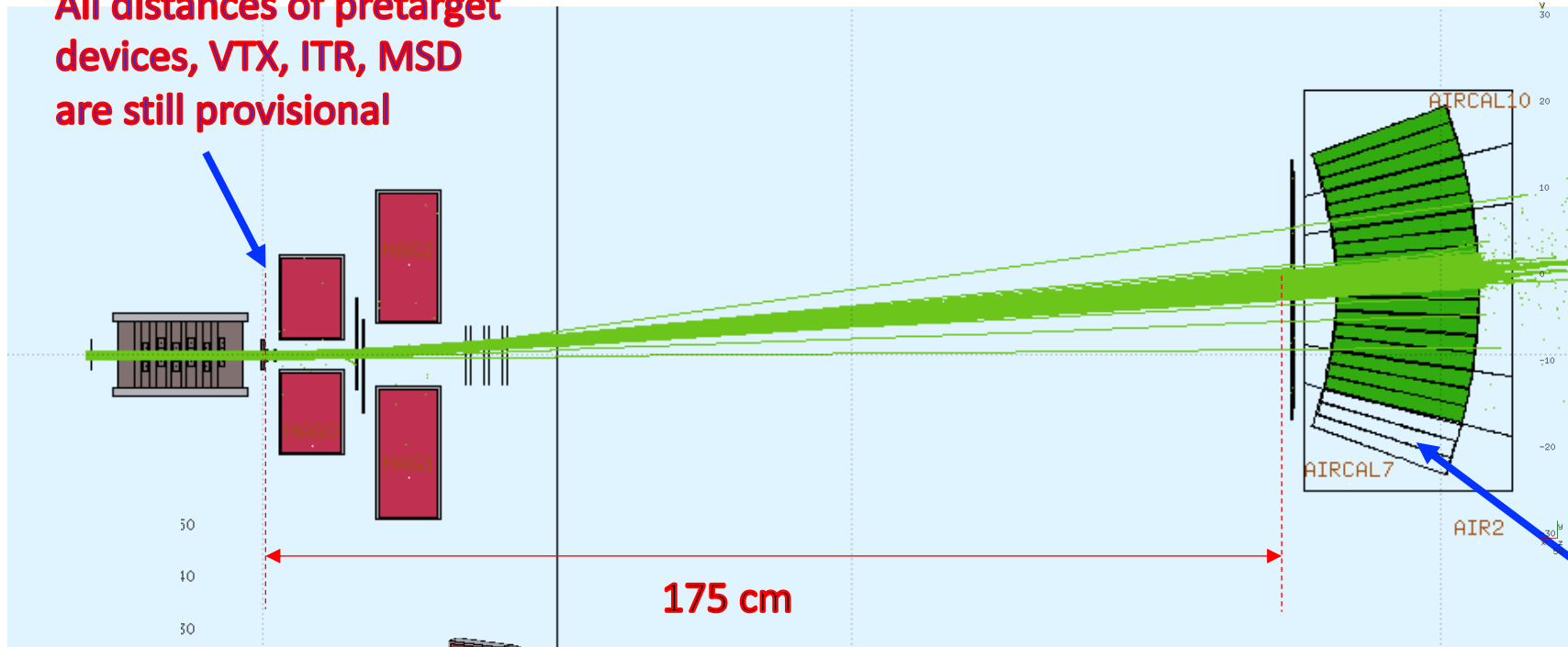# Introduction

The new campaign **CNAO2023_MC** has ben <u>provisionally</u> prepared in the newgeom branch, starting from full detector campaign **12C_200_2023v2**
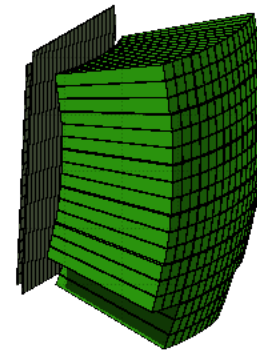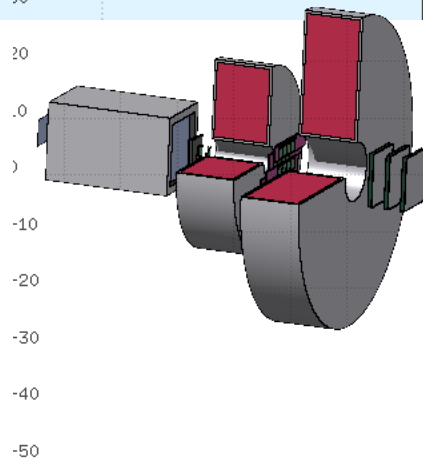
We wish to acknowledge the work of Ernesto Lopez Torres who was able to fix the automatic generation of calorimeter geometry for both campaigns

CNAO2023_MC design

All distances of pretarget devices, VTX, ITR, MSD are still provisional

175 cm

The concept is that we fill with air the crystals which will not be mounted

CNAO2023_MC design

Modules ID (Back view, side readout boards)

Crystal ID to be mapped with Board/channel (Back view, side readout boards)

These maps are created as pdf in the geomaps/CNAO2023_MC directory

Additional work

For the purpose of physics studies, we have added in newgoem also the **16O_200_2023v2** campaign (^{16}O +C at 200 MeV/u)