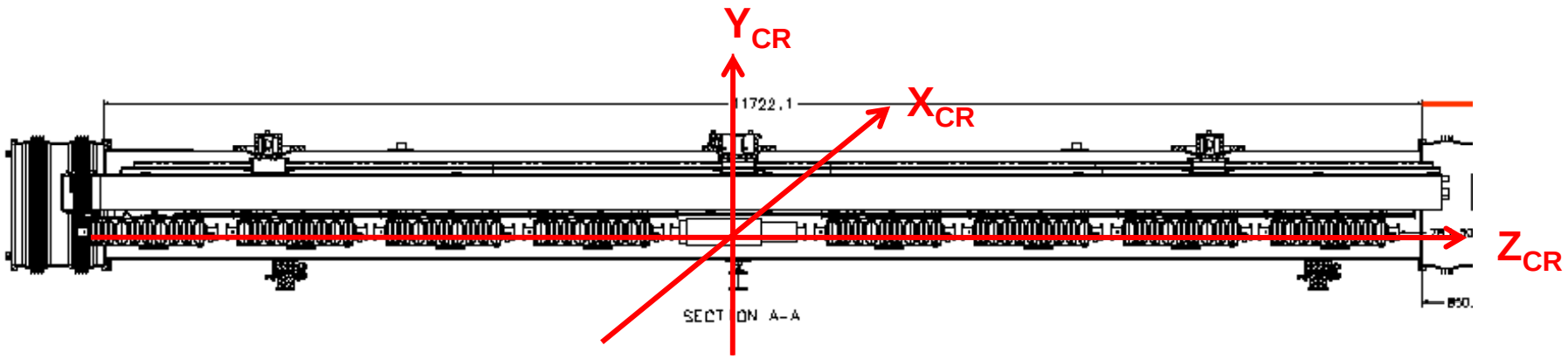
Coordinate system of cryomodule and cavity

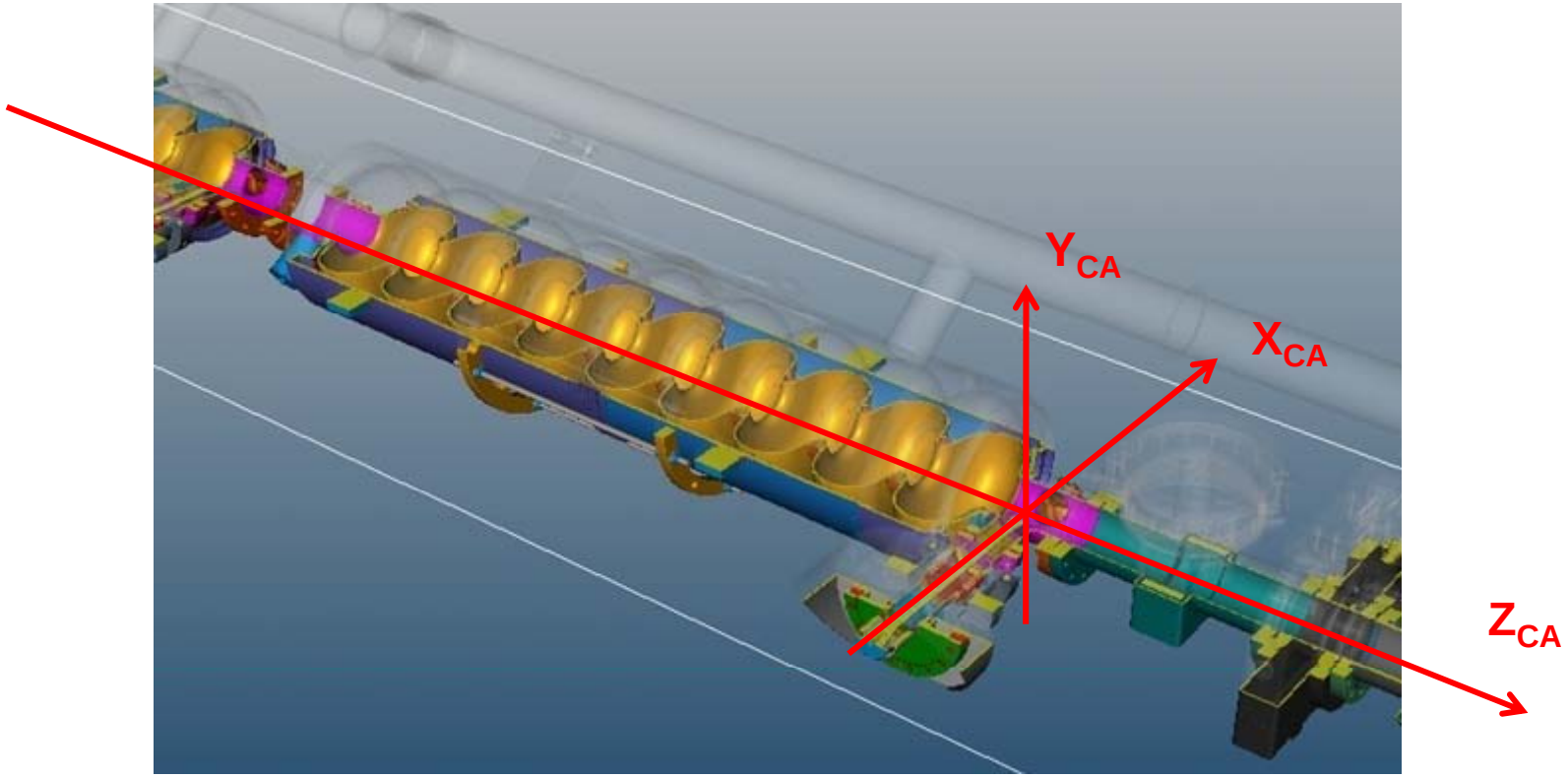
Norihito Ohuchi

Cryomodule Coordinate



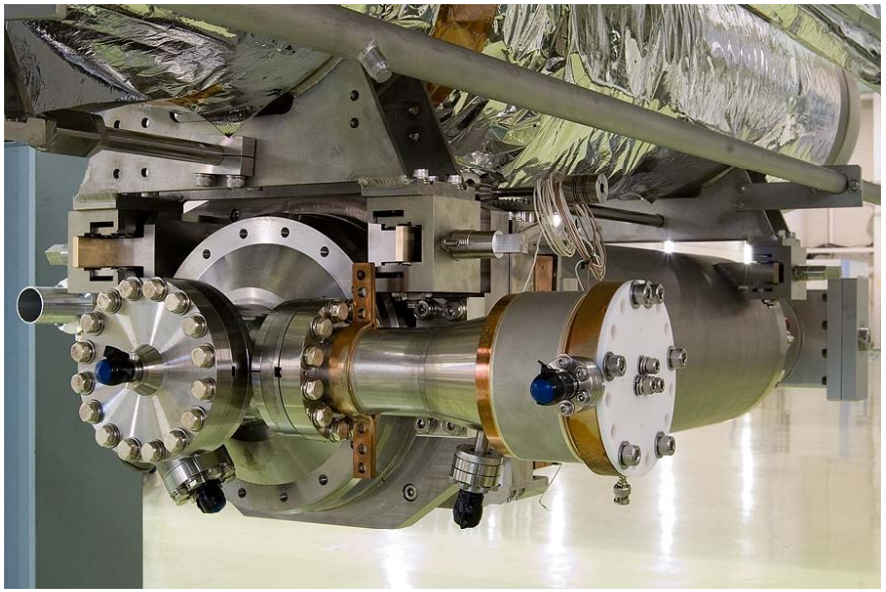
Designed beam line : Z_{CR} axis
Vertical line with parallel to the gravity and through the target center on the center post : Y_{CR} axis
Horizontal line with perpendicular to the beam line : X_{CR} axis
Sign is define as shown in the picture when the cryomodule is viewed from the input coupler side.

Cavity Coordinate

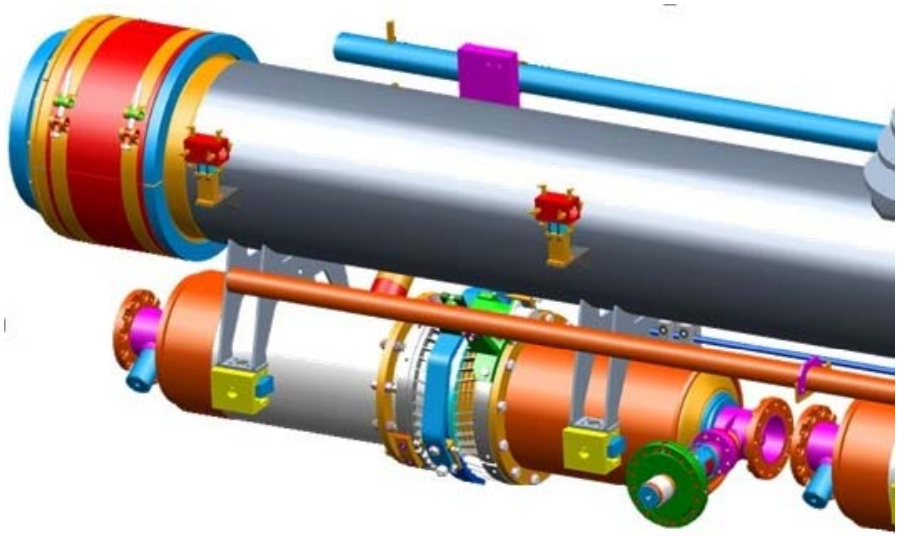


Designed beam line : Z_{CA} axis
Horizontal line through the center of the connection flanges between the input coupler and the beam pipe : X_{CA} axis
Vertical line with perpendicular to the beam line : Y_{CA} axis
Sign is defined as shown in the picture when the cavity is viewed from the input coupler side.

one example



KEK BL cavity vessel with input coupler



Type 4 Cryomodule design

The connection direction of the input coupler is opposite.