



Jefferson Lab Alignment Group

Data Transmittal

TO: J. Fisher

DATE: 07/25/2022

FROM: Elena Balan

Checked:

: Z2043 / C002

DETAILS:

M:\align\DATA\SRFCryo\SNSPPU\CM002\FINAL\220325A

Data bellow presents the final fiducials coordinates for the SNS cryomodule C002 surveyed in March 2022. The coordinate system established is as follows: the cavity string defines the beam axis, the primary Bayonet of the return can is controlling roll, and the upstream coupler defines the origin in Z. Positive Z downstream, positive X beam left and positive Y up. Coordinates presented in the table below are in inches. Consider that the measurements for the fiducials were taken using a 0.5" SMR and a Hubbs nest that has an H value of 0.5000" to centerline of sphere.

Name	X[inch]	Y[inch]	Z[inch]
SNSFIDA	21.451	0.101	135.743
SNSFIDB	-0.016	21.676	135.728
SNSFIDC	-21.496	0.107	135.697
SNSFIDD	21.509	0.129	97.805
SNSFIDE	0.001	21.711	97.797
SNSFIDF	-21.495	0.107	97.755
SNSFIDG	21.456	0.172	69.396
SNSFIDH	-0.016	21.706	69.444
SNSFIDJ	-21.475	0.088	69.351
SNSFIDK	21.514	0.137	26.816
SNSFIDL	0.002	21.654	26.759
SNSFIDM	-21.473	0.078	26.771
SNSFIDN	21.542	0.126	-11.192
SNSFIDP	-0.015	21.629	-11.205
SNSFIDR	-21.475	0.030	-11.231

In Vacuum Vessel			
Name	X[inch]	Y[inch]	Z[inch]
US Flange	0.011	0.024	-53.861
DS Flange	-0.007	0.062	178.452