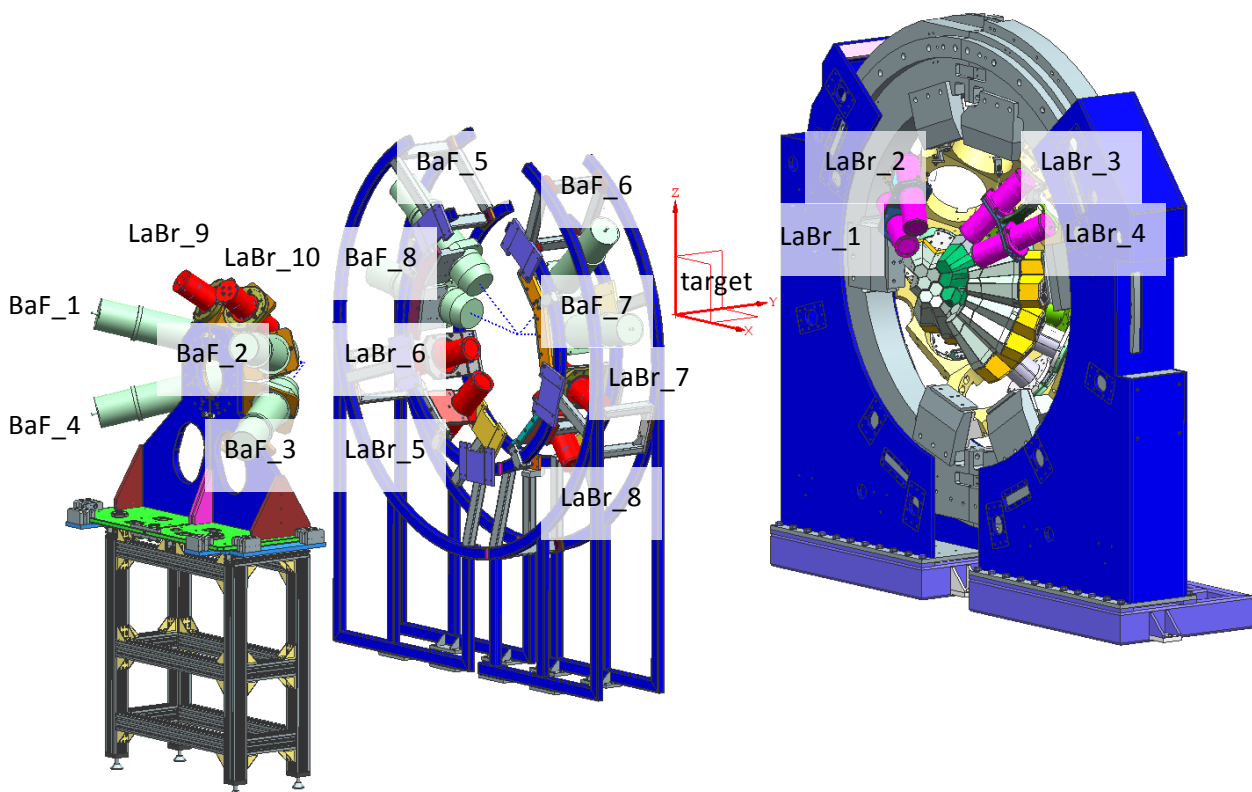


HECTOR and HECTOR+ measurement campaign at AGATA@PRESPEC

September 2012 at GSI

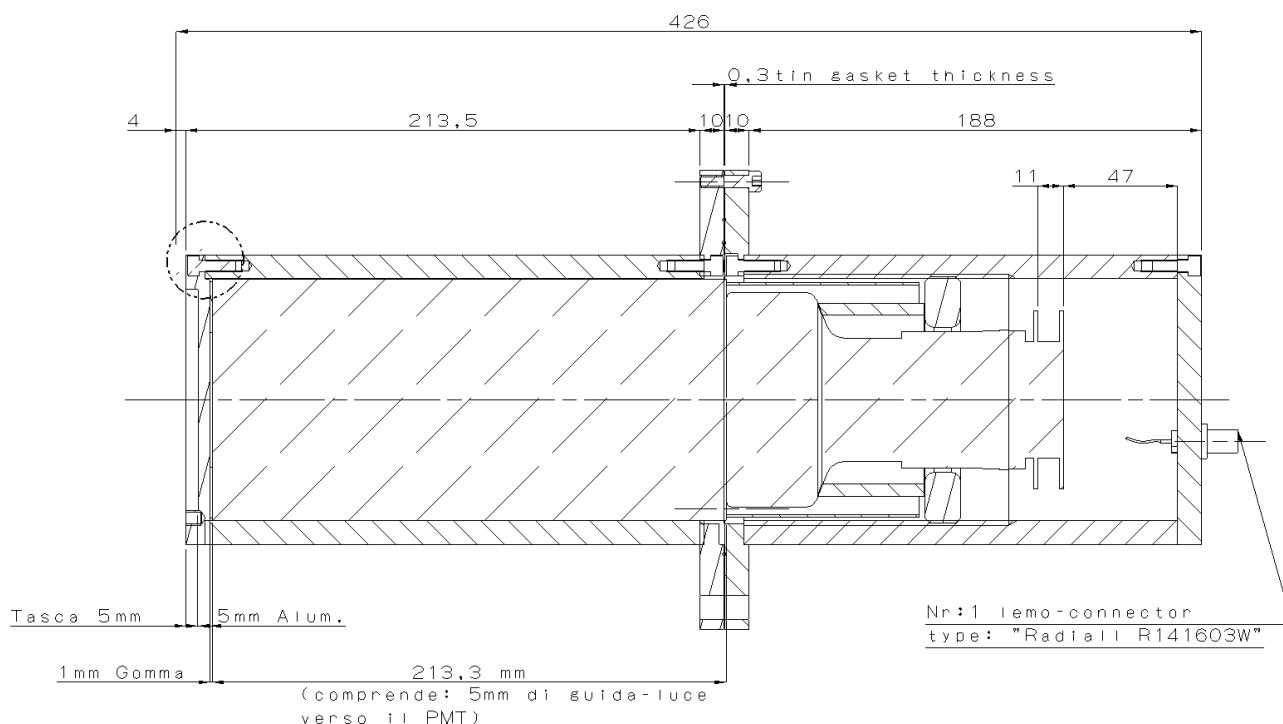
From measurements taken on LaBr and BaF detectors using: Leica AT401 Laster Tracker (J. Strachan and F. Tomasi)
Measurement precision is rounded around few tenth of mm.

	DETECTOR Crystal FRONT-FACE			DETECTOR Crystal BACK-FACE			r [mm]	θ
AGATA	X	Y	Z	X	Y	Z		
LABR_1	-331.9	149.8	137.9	-515.1	229.3	213.0	389.4	68.13
LABR_2	-255.2	148.5	253.8	-397.5	234.2	387.6	389.3	66.31
LABR_3	232.5	148.0	275.8	355.9	229.1	429.7	389.9	67.64
LABR_4	321.1	148.0	171.2	493.3	228.8	267.7	392.8	67.74
MINIBALL	X	Y	Z	X	Y	Z		
BAF_5	-272.4	-49.3	218.2	-409.8	-62.8	329.0	352.4	94.39
BAF_6	274.8	-40.9	220.6	413.9	-56.2	328.9	354.7	94.97
BAF_7	343.3	-40.4	66.8	517.0	-56.2	97.2	352.1	95.12
BAF_8	-345.1	-44.0	65.6	-518.5	-59.1	97.1	354.0	94.91
LABR_5	-258.0	-42.3	-263.6	-409.0	-64.2	-412.7	371.2	95.91
LABR_6	-347.9	-40.4	-107.9	-550.4	-57.9	-172.6	366.5	94.68
LABR_7	340.7	-38.3	-105.7	542.9	-55.4	-171.2	358.7	94.58
LABR_8	247.4	-43.1	-259.0	396.1	-59.6	-411.0	360.8	94.45
HECTOR TABLE	X	Y	Z	X	Y	Z		
BAF_1	-198.3	-281.6	83.7	-299.2	-420.9	125.4	354.4	141.92
BAF_2	201.6	-279.6	83.6	302.3	-418.7	126.4	354.7	141.81
BAF_3	201.0	-279.7	-82.2	301.2	-419.3	-124.6	354.1	142.07
BAF_4	-199.3	-281.0	-80.7	-299.8	-420.7	-122.1	353.8	142.13
LABR_9	-85.4	-292.1	208.7	-135.3	-459.8	330.6	368.9	141.85
LABR_10	87.8	-291.7	208.2	139.0	-459.0	330.1	368.9	141.68



Measurements are taken from both the crystal front- and back-face centres. Following drawings describe the detectors' layout:

- for LABR: the length of the detector is taken as 213.3mm, including a 5mm glass window on the PMT side a 1mm rubber is inserted between the crystal and the case.



- for BaF: the length of the detector is taken as 177mm. (There is no light guide between BaF and PMT) the amount of rubber between crystal and case is variable (about 1 to 4mm) and not inserted in the following drawing

