MRPCs:

construction and tests Status report

AM 2017 05 24

17 MRPCs already built 2 in construction + 3 by July

20170222001 I AMP-01 20170223002 LAMP-01 20170225003 LAMP-01 20170314004 GENO-01 20170316005 GENO-01 20170317006 GENO-01 20170405007 SIEN-02 20170406008 SIEN-02 20170407009 SIEN-02 20170425010 CARI-01 20170426011 CARI-01 20170427012 CARI-01 20170509013 TORI-05 20170510014 TORI-05 20170511015 TORI-05 20170523016 LODI-03 + 2 LODI-03 + 3 CAGL-04

All of them 6 gaps 250 um + 5 glasses 280 um.

Identified by lateral green band

Tests flow

Test during the constructions:

Electrodes Resistivity

HV

strips

Test after constructions:

Gas tightness

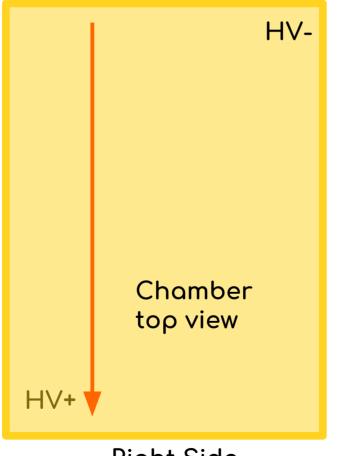
Efficiency
Dark rates
Dark currents

Delivery

If any problem

A proposal for a standard telescope axis definition

Left Side



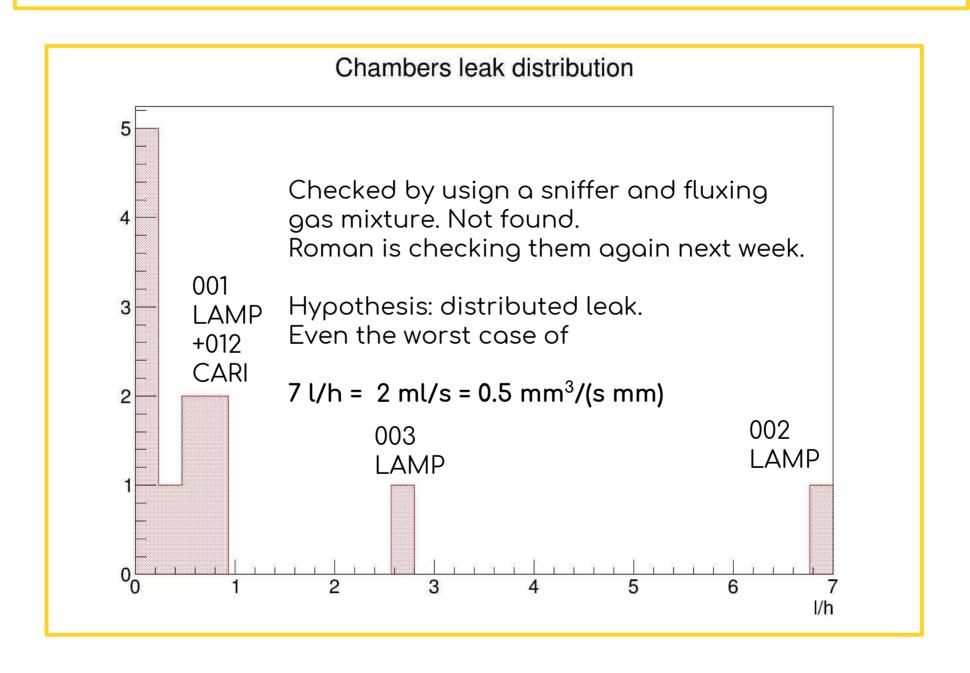
Right Side

We could define as the Standard for telescopes orientation

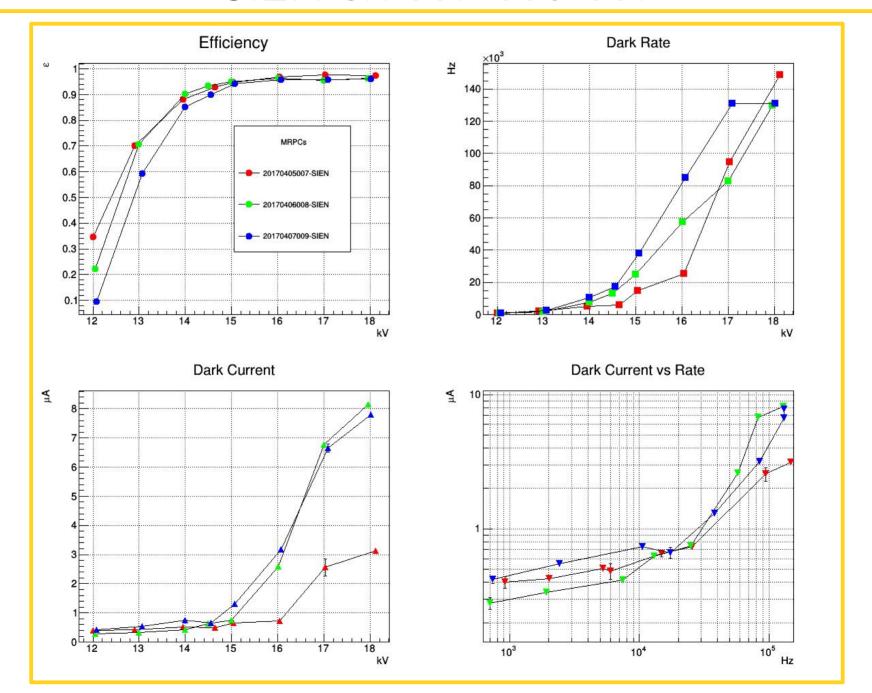
the LEFT
on the negative HV side
and the RIGHT
on the positive

giving the axis as in the sketch.

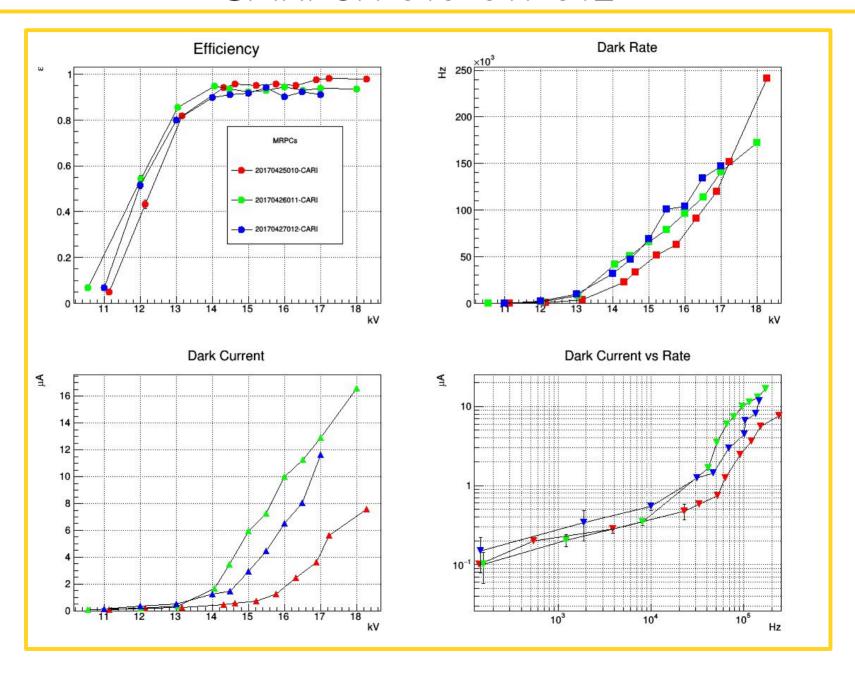
Gas tightness tests (chamber 001-012)



Efficiencies SIEN ch 007-008-009



Efficiencies CARI ch 010-011-012



CHAMBER	strips	HV	Resist.	Leaks	Effic.	Notes
20170222001				ToBeFound	ОК	No info on firts tests. Should Be Ok. Leak to Be Cured
20170223002				ToBeFound	ОК	No info on firts tests. Should Be Ok. Leak to Be Cured
20170225003				ToBeFound	ОК	No info on firts tests. Should Be Ok. Leak to Be Cured
20170314004				OK	ТВТ	No info on firts tests. Should Be Ok.
20170316005				OK	ТВТ	No info on firts tests. Should Be Ok.
20170317006				OK	ТВТ	No info on firts tests. Should Be Ok.
20170405007	OK	OK	OK	OK	ОК	
20170406008	OK	ОК	OK	OK	ОК	
20170407009	ОК	ОК	OK	OK	OK	
20170425010	ОК	ОК	ОК	OK	OK	
20170426011	ОК	ОК	ОК	OK	OK	
20170427012	ОК	ОК	ОК	ToBeFound	OK	Leak to Be Cured
20170509013	ОК	ОК	ОК	ToBeTested	OK	
20170510014	ОК	ОК	ОК	ToBeTested	OK	
20170511015	ОК	ОК	ОК	ToBeTested	OK	
20170523016	ОК	ОК	ОК	ToBeTested	ТВТ	
20170524017						in construction
20170525018						in construction

MRPC ID:							
N. gaps: 6 p size (μm): 250							
High Voltage HV- on TOP side and HV+ on BOTTOM side Correctly labeled Strips Solderings Strips connectivity test List problematic strips (solderings or connections) if any: Left connector (HV- side) Right connector (HV- side)							
Notes:							
Gas Tightness: I/h Notes:	Glass Res (MΩ)						
Efficiencies and survents							
Efficiencies and currents							
	Supervisors:						
	Geneva 2017						

Test Program:

Next week Roman will try to find leakages and I will join him the week after

End of efficiency tests by the end of June

Then shipping

Comments/Ideas/Upgrades