

# DRD4 – Theme 4.4: Develop compact high-performance time-of-flight detectors

WP 4.4.1: Study the coupling of a thin Cherenkov radiator to a SiPM array

*(proposal to drop 'thin' and SiPM → 'photon detector')*

Sum: ~5.5 FTE (F+P+S+E), ~150kEUR

#	Name	Group
5	Eugenio Nappi	Bari
8	Rok Pestotnik	Ljubljana
17	Christian Morel	Marseille
26	Alberto Gola	FBK
50	Antonello Di Mauro	CERN-ALICE
53	Inaki Ortega	CERN-SY

WP 4.4.2: Develop a SiPM array suitable for TOF detectors, with mm-scale pixelization

Sum: ~16.5 FTE (F+P+S+E), ~430kEUR

#	Name	Group
5	Eugenio Nappi	Bari
7	David Gascon	Barcelona
10	Jon Lapington	Leicester
17	Christian Morel	Marseille
26	Alberto Gola	FBK
34	Karl Ziemons	Aachen
40	Emile Schyns	Photonis*
50	Antonello Di Mauro	CERN-ALICE

\* Industrial partner

N.B.  
 -Probably quite some double counting in resources.  
 -Several groups with no resources at this moment.

### WP 4.4.3: Develop lightweight mechanical supports for DIRC-type TOF detectors

#	Name	Group
12	Jochen Schwiening	GSI
22	Guy Wilkinson	Oxford
32	Jianbei Liu	USTC

Sum: ~2.3 FTE (F+P+S+E)

### WP 4.4.4: Develop techniques for measuring the optical properties of optical components

#	Name	Group
12	Jochen Schwiening	GSI
19	Amur Margaryan	Armenia
22	Guy Wilkinson	Oxford
32	Jianbei Liu	USTC
40	Emile Schyns	Photonis*
41	Mauro Piccini	Perugia

Sum: ~9.5 FTE (F+P+S+E), ~110kEUR

\* Industrial partner