



HelmholtzZentrum münchen
German Research Center for Environmental Health



EURADOS INTERCOMPARISONS ON WHOLE BODY DOSEMETERS (2015) COORDINATION

Participants meeting IC2015_{ext}

European Radiation Dosimetry Group

EURADOS →

Organisation Group / Coordinators



A.F. McWhan¹, M. Figel², T.W.M. Grimbergen³,
A. M. Romero⁴, H. Stadtmann⁵, Ch. Gärtner⁵

¹ Babcock International Group, United Kingdom

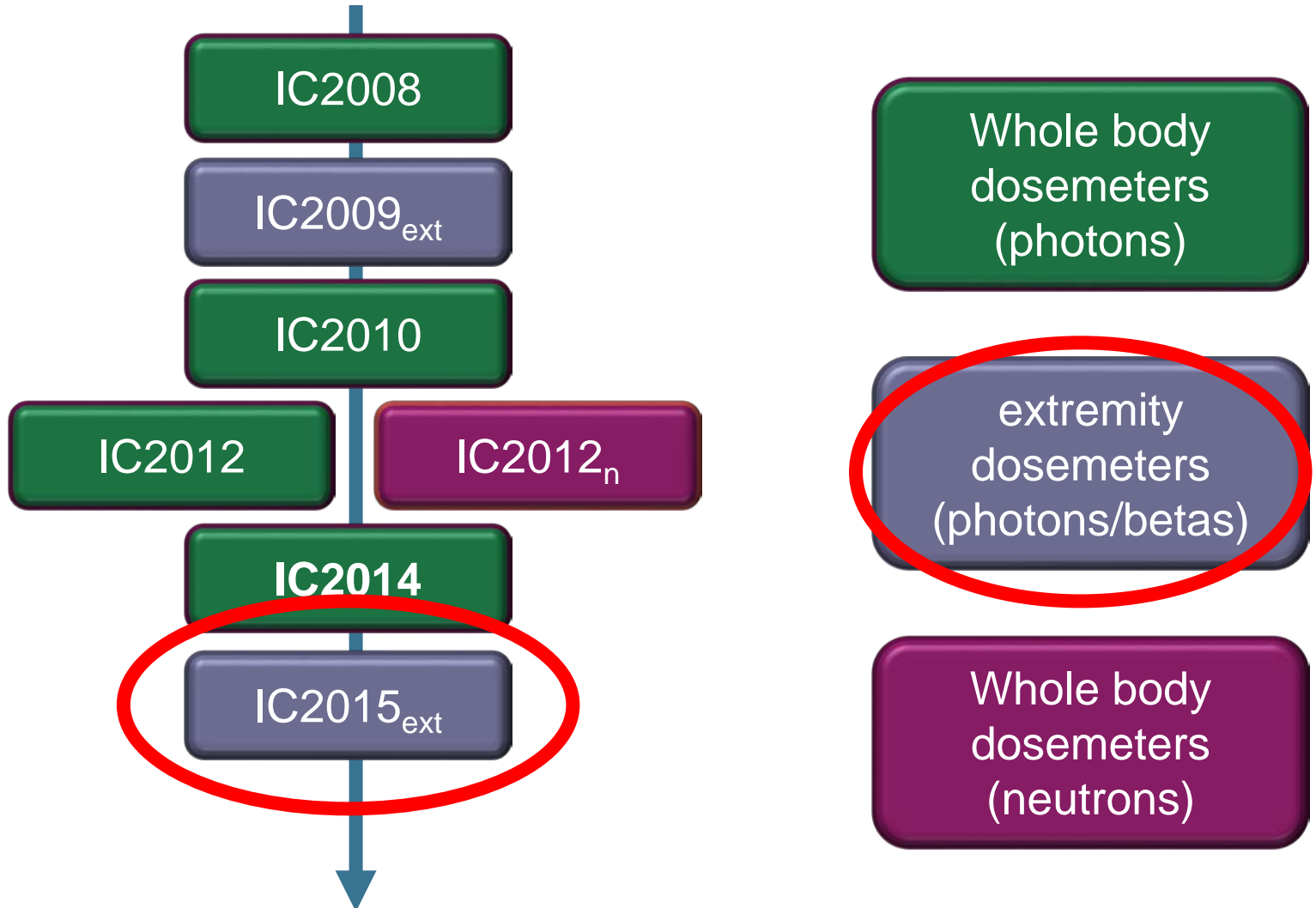
² Helmholtz-Zentrum Muenchen, Germany

³ NRG, Radiation and Environment, the Netherlands

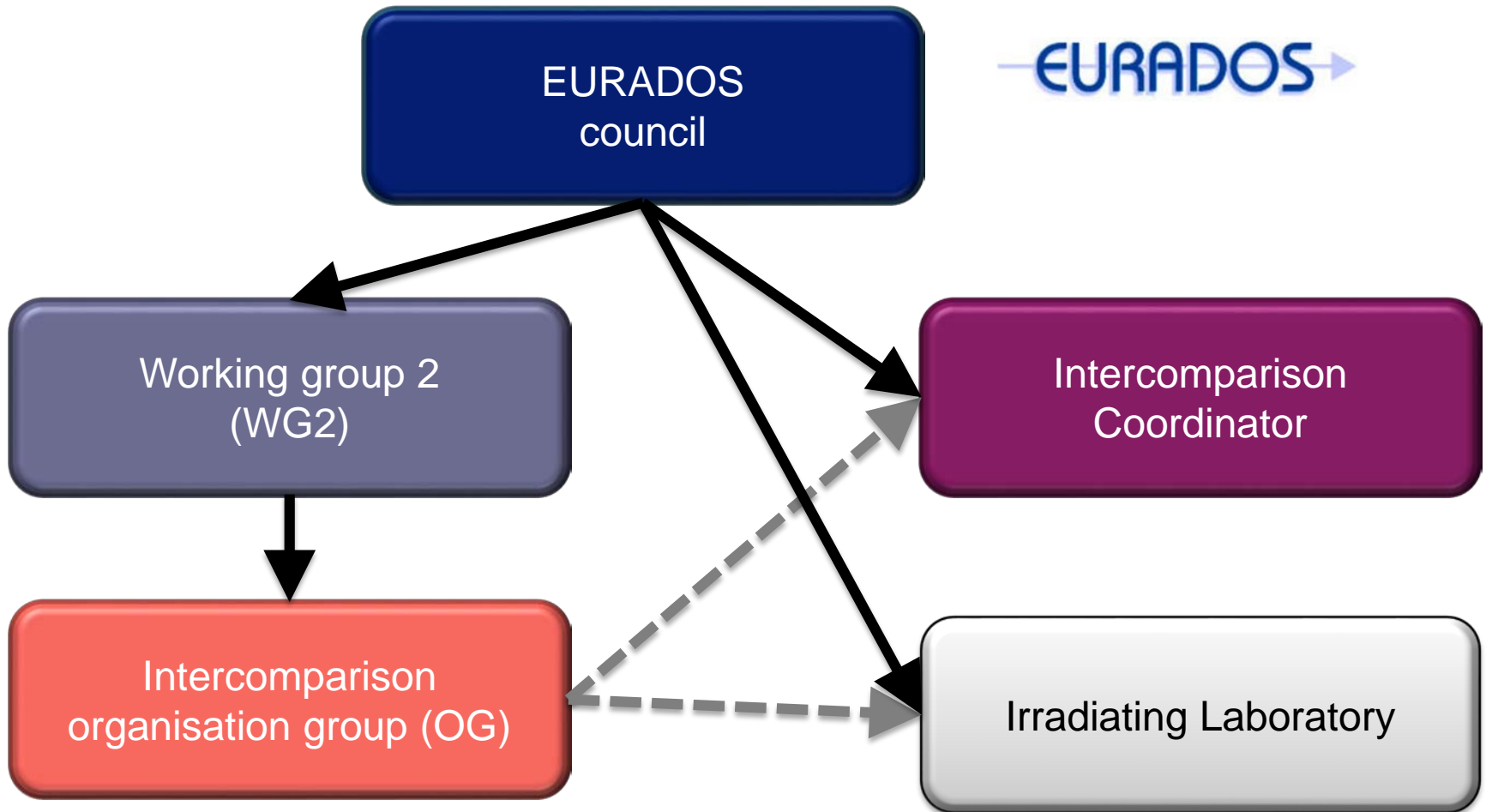
⁴ Ciemat, Spain

⁵ Seibersdorf Labor GmbH, Austria

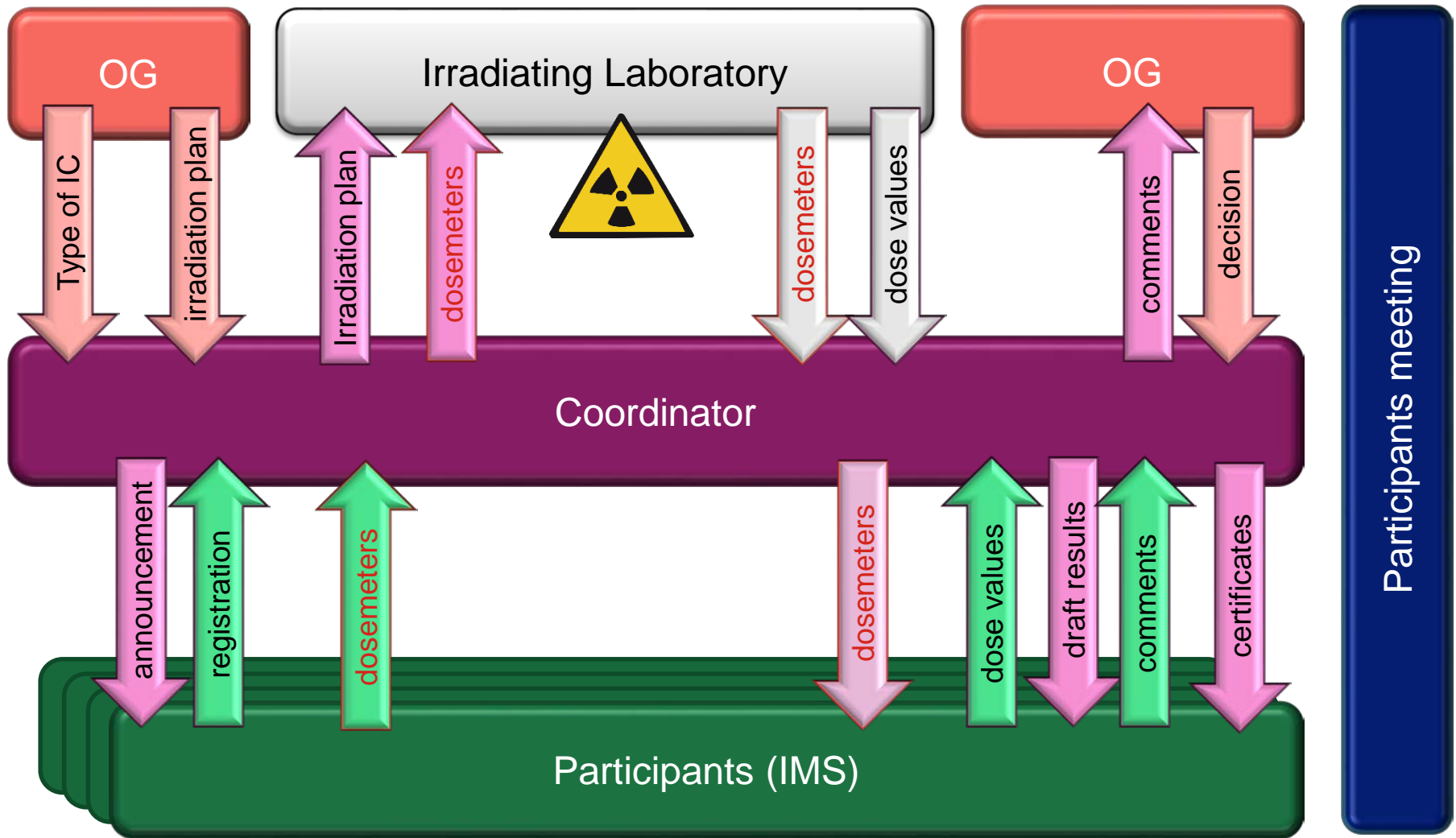
Intercomparisons WG2



EURADOS Intercomparisons

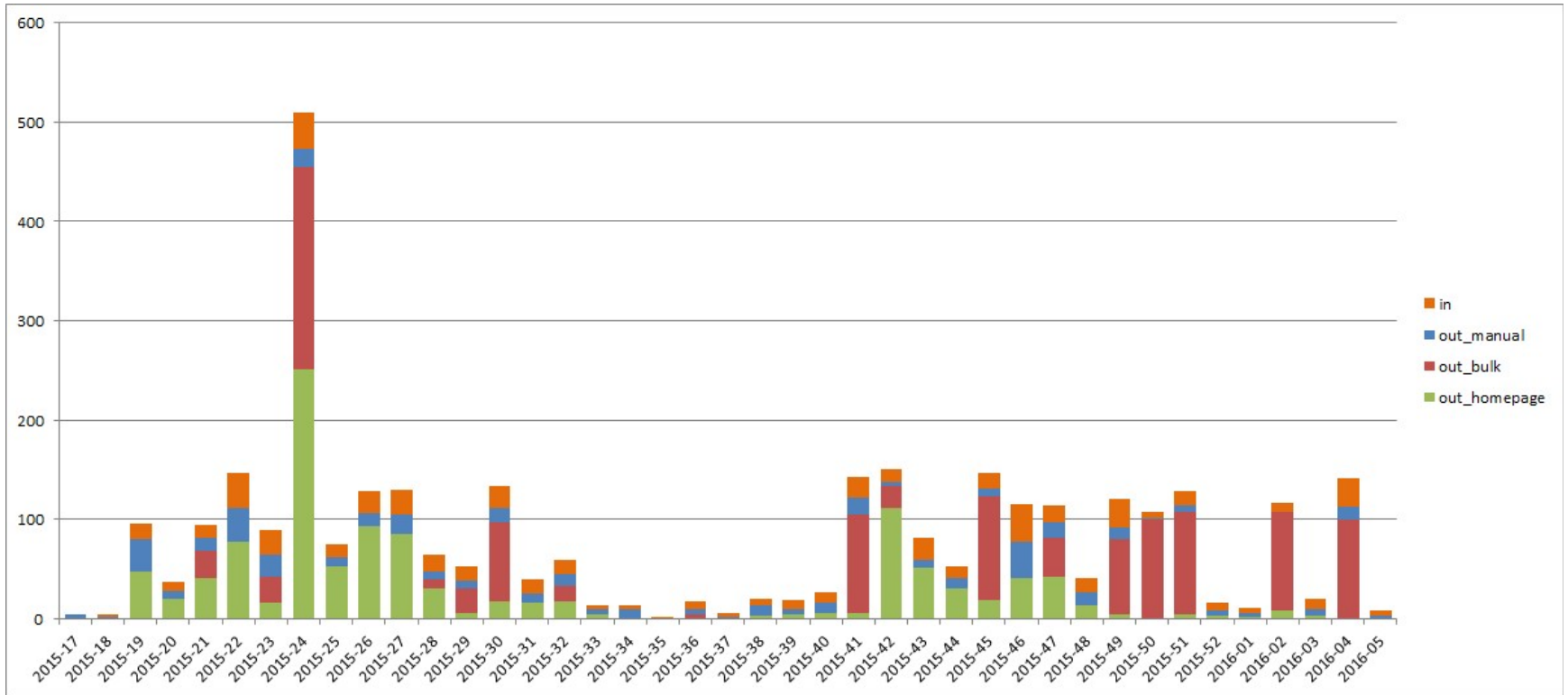


Transfer and communication



Communication with coordinator

Emails / week



Announcement



Extremity dosemeter intercomparison IC2015ext

Provisional Schedule – dates to be confirmed

Announcement - Call for participants	April 2015
*Registration of participants and systems	April 2015 – May 2015
Deadline for IMS sending application forms	31 May 2015
Deadline for IMS sending doseimeters to OG	30 June 2015
Irradiations	July - August 2015
OG sending doseimeters for readout	15 September 2015
Deadline for IMS sending doseimeters results to OG	15 November 2015
Final results available	01 January 2016
IMS receiving certificates of participation	01 February 2016

Online Plattform



Extremity dosemeter intercomparison IC2015ext

[Start page](#) ♦ [Documents](#) ♦ [Feedback](#) ♦ [Logout \(hannes.stadtman@sl.at\)](#)
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♦ **Welcome!** ♦

Welcome to the Eurados Extremity dosemeter intercomparison IC2015ext!

On this homepage, participants of the **Extremity dosemeter intercomparison IC2015ext** can log in and check the current status of the intercomparison, receive information about the irradiation process, enter their dose values and much more.

For the documentation please have a look at the file 'IC2015ext Online Platform Documentation.pdf' which is available via the 'Documents' link!

**As the deadline for registration is over (Monday, 2015-06-08, 23:59 (CEST)),
registration is no longer possible.**

By the way: you can change the language of this homepage in the bottom left corner.

Participants / Systems

Country	total
Austria ^{EU}	3
Belgium ^{EU}	4
Switzerland	3
Czech Republic ^{EU}	1
Germany ^{EU}	3
Spain ^{EU}	6
France ^{EU}	2
United Kingdom ^{EU}	3
Greece ^{EU}	1
Israel	1
Italy ^{EU}	10
Japan	1
Lebanon	1
Lithuania ^{EU}	1
Netherlands ^{EU}	1
Portugal ^{EU}	1
Romania ^{EU}	1
Serbia	1
Sweden ^{EU}	2
Slovakia ^{EU}	1
Turkey	3
United States	2
	52

- 52 Participants (*Pnnn*)
- 72 Systems (*Snnn*)
- 22 Countries
- (one Participant withdraw)

Announcement

Announcement of the EURADOS Intercomparison 2015 for extremity dosimeters

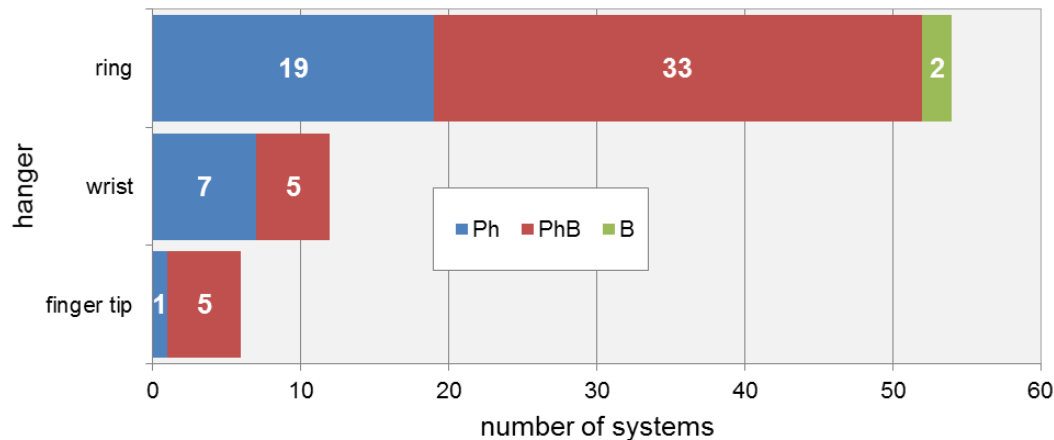
Irradiations, restricted to photons and betas, will be performed in European irradiation facilities in terms of $H_p(0.07)$ in the following ranges:

- Photon energy: 16 to 662 keV
- Beta mean energy: 250 to 1000 keV
- Dose: 0,5 mSv to 1 Sv
- Angle of incidence: $\pm 60^\circ$

The dosimeters will be irradiated with both photon and beta sources but the participant may choose to include only the results for photons or betas in the Certificate of Participation by marking this option in the application form.

Dosemeter types

detector type	systems	% of all	% of type
TLD	69	96%	
LiF:Mg,Ti	36	50%	52%
LiF:Mg,Cu,P	29	40%	42%
Li2B4O7:Cu	3	4%	4%
LiF:Mg,Ti/LiF:Mg,Cu,P	1	1%	1%
Other	3	4%	
AIO	2	3%	67%
LiF T-100	1	1%	33%
All	72	100%	



Final irradiation plan

radiation type		quality	min	mean	max
photon	X-ray	RQR3	16.2	19.1	23.57
		RQR3/60°	16.1	19.1	23.46
		W-80	15.2	19.7	24.38
		RQR9-L	17.5	20.7	24.6
		RQR9-H	494.3	547.1	589.18
	gamma	Cs-137	4.6	5.2	5.79
mixed		Sr-90/Cs-137	7.4	8.4	9.52
beta		Kr-85	5.5	6.1	7.52
		Sr-90	5.7	7.1	10.03
		Sr-90/60°	6.4	8.0	11.28
All			4.6	61.8	589.18

Radiation qualities

Radiation qualities and average photon energies or maximum beta energies (according to certificate of irradiation):

- Beta Radiation:
 - Kr-85: 0.69 MeV (E_{max}) (ISO 6980)
 - Sr-90/Y-90: 2.3 MeV (E_{max}) (ISO 6980)

- Gamma Radiation:
 - S-Cs: 662 keV (ISO 4037)

- X-Rays:
 - W-80: 57 keV (80 kV) (ISO 4037)
 - RQR 3: 33 keV (50 kV) (IEC 61267)
 - RQR 9: 57 keV (120 kV) (IEC 61267)