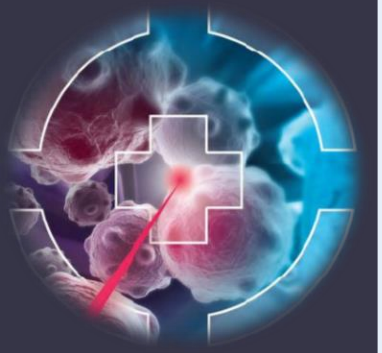

International Conference
Medical Accelerators and Particle Therapy

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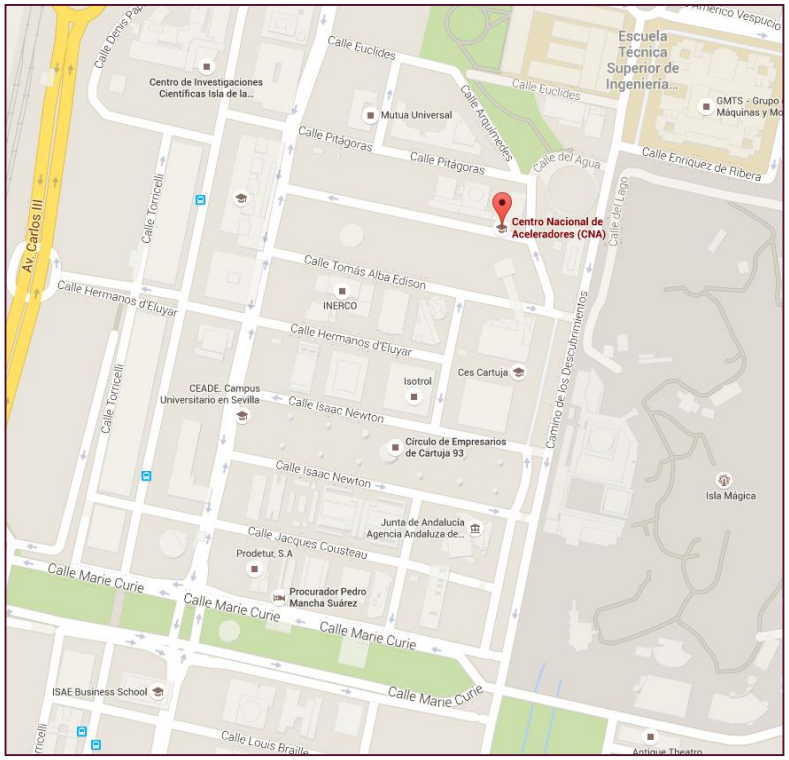
VENUE

National Center of Accelerators, CNA
Avenida Thomas Alva Edison n º 7
Parque Tecnológico Cartuja '93
E-41092 Seville – Spain



OVERVIEW OF ACTIVITIES

Tuesday 3rd September

20:30 Drinks reception at *Restaurante Río Grande*

Wednesday 4th September

Registration from **8:45** to **9:00**
Conference from **9:00** to **17:40**
19:30 Public Talk at *Casa de la Provincia*

Thursday 5th September

Conference from **9:00** to **17:30**
Poster Session from **14:30** to **16:00**
20:30 Conference Dinner at
Hotel Fontecruz Sevilla Seises

Friday 6th September

Conference from **9:00** to **13:00** followed by lunch

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BUS TRANSFER HOTEL ZENIT – CNA – HOTEL ZENIT

A coach will depart from Hotel Zenit (Calle Pagés del Corro, 90, 41010 Sevilla *~10min walking distance from Hotel Reyes Católicos* **) to CNA at 8:00 (Wed), and 8:15 (Thu & Fri).**

Return from CNA to Hotel Zenit at 17:45 (Wed & Thu).

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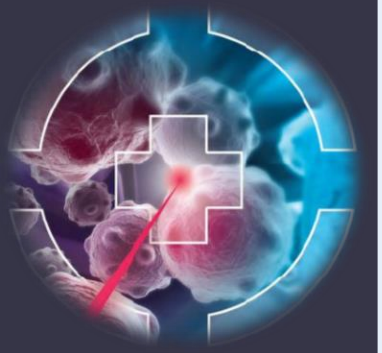

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		Wednesday			Thursday			Friday
09:00	Introduction	**Welcome and Introduction** (CNA, tbc) State of the art in ion beam therapy Carsten P Welsch (ULIV)	09:00	Invited	**Monte Carlo Dosimetry** Antonio Lallena	09:00	Invited	**4D Patient monitoring** Guido Baroni (CNAO)
09:30	Invited	**Next-generation therapy accelerators** Yves Jongen (IBA)	09:30	Contributed	**Review of the improved nuclear physics models in FLUKA for helium and carbon ion therapy** Giulia Arico	09:30	Contributed	**Organ motion quantification and margins evaluation in carbon ion therapy of abdominal lesions** Charalampos Kalantzopoulos
10:00	Contributed	**FlashTherapy: an innovation in particle therapy** Lucia Giuliano	09:50	Contributed	**A data-driven nuclear fragmentation model for a fast Monte-Carlo code, FRED, in Particle Therapy with Carbon beams** Micol De Simoni	09:50	Contributed	**Optimization of high-performance 3D/4D surface scanning technology for patient monitoring in radiotherapy environment** Roland Höfling
10:20	Contributed	**Technical Challenges for FLASH Proton Therapy** Simon Jolly	10:10	Contributed	**Monte Carlo modelling of the Clatterbridge Proton Therapy beamline for Beam Diagnostics integration** Jacinta Yap	10:10	Contributed	**A Modular Control System for Treating Moving Targets with Scanned Ion Beams: Design, Development, and Preliminary Test Results** Michelle Lis
10:40		**EXPLORING OF ADVANCES IN HIGH GRADIENT TECHNOLOGIES FOR USE IN HADRON THERAPY ACCELERATORS** Anna Vnuchenko	10:30	Contributed	**A Monte Carlo study of target fragmentation in Protontherapy** Alessia Embriaco	10:30	Contributed	**Uncertainty Quantification Analysis and Optimization For Proton Therapy Beam Lines** Valeria Rizzoglio
11:00	Coffee							
11:30	Invited	**Imaging beam in patient** Katia Parodi (LMU)	11:30	Invited	**Dosimetry and QA** Simon Marcelis	11:30	Contributed	**Digital LLRF system: concepts and requirements for proton therapy based on a linear accelerator** Borut Baricevic
12:00	Contributed	**PET Imaging and Dose correlation from Proton Activation** Victor Valladolid Onecha	12:00	Contributed	**Luminescence imaging of proton beams in water: Is this method sufficient for use in clinical quality assurance?** Jan Michael Burg	11:50	Contributed	**Challenges in assessing risks for particle accelerators as medical devices** Roberto Filippini
12:20	Contributed	**Toward a novel treatment planning approach accounting for prompt gamma range verification** Liheng Tian	12:20	Contributed	**Inter-fractional monitoring in Carbon ions Particle Therapy treatments with the Dose Profiler detector** Marta Fischetti	12:10	Contributed	**The upcoming European Joint Research Project "Metrology for advanced radiotherapy using particle beams with ultra-high pulse dose rates"** Andreas Schueller
12:40	Contributed	**The SiFi-CC project - prompt gamma imaging for real time monitoring of proton therapy** Katarzyna Rusiecka	12:40	Contributed	**Monitoring intra-fractional motion using a novel range telescope in a mixed He/C beam** Laurent Kelleter	12:30	Contributed	Summary, Carsten P Welsch
13:00	Lunch							
14:30	Invited	Diagnostics Michele Caldara (AVO/Adam)	14:30			####	Departure	

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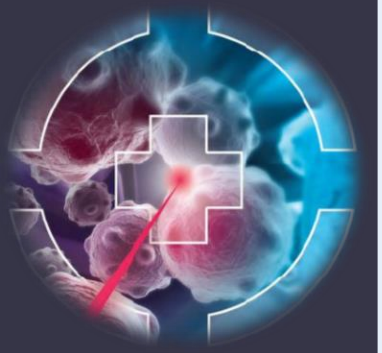

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		Wednesday			Thursday
15:00	Contributed	**Characterisation of the LHCb VELO detector modules as a non-invasive Proton Beam Monitor** Roland Schnuerer			Poster session
15:20	Contributed	**Beamline characterization of a Dielectric-filled Reentrant Cavity Resonator as a Beam Current Monitor for medical cyclotron beamline at PSI, Switzerland: Its advantanges and limits** Sudharsan Srinivasan			
15:40	Contributed	**Beam and detector characterisation using Medipix3 at MedAustron IR1 using protons and carbon ions at clinical flux rates and full energy range** Navrit Bal			
16:00	Coffee				
16:30	Invited	**Dose Delivery** Tony Lomax (PSI)	16:30	Contributed	**Treatment facility optimization** Andrea de Franco
17:00	Contributed	**Superconducting gantry for proton therapy and imaging** Ewa Oponowicz	16:50	Contributed	**Preparation of a radiobiology beam-line at the 18 MeV proton cyclotron facility at CNA** Anna Barato Roldan
17:20	Contributed	**Design considerations of a superconducting gantry with alternating-gradient combined-function magnets** Bin Qin	17:10	Contributed	**Light ion therapy software for data exchange** Carlos Afonso
19:30	**Public Talk**	Acelerando partículas para tratar el cáncer			
			20:30		**Gala Dinner - midnight**

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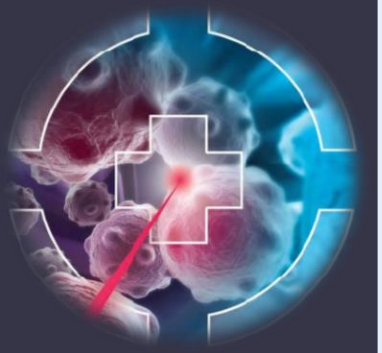

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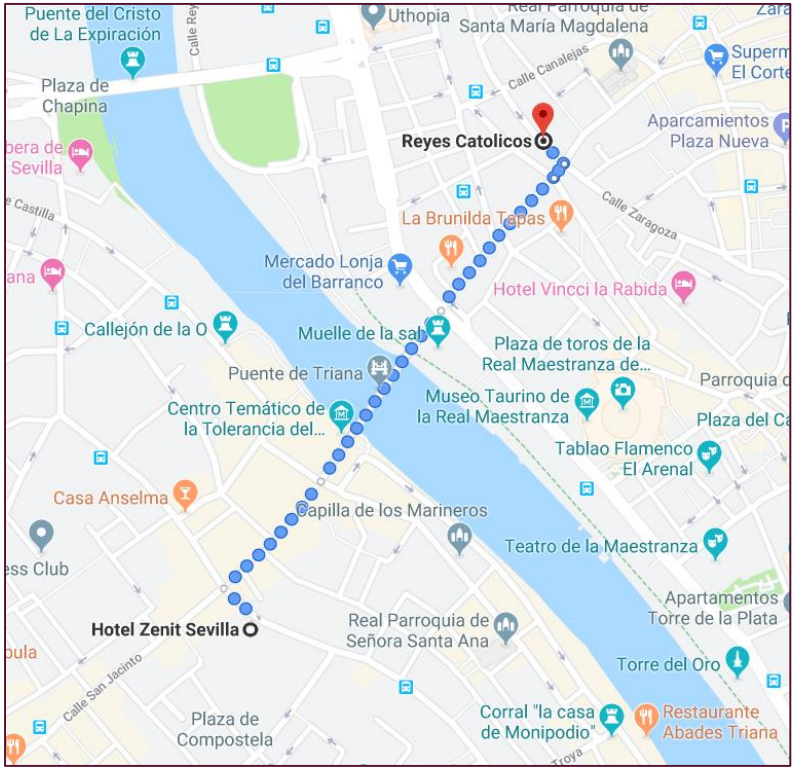
ACCOMMODATION

Hotel Reyes Católicos
Calle Gravina, 57
41001 Sevilla
http://www.hotelreyescatolicos.info/en/



HOW TO GET TO THE HOTEL

By Taxi

There is a fixed price between the airport and any place in Seville.

Taxis to and from the airport should not charge you for any luggage. If you book a taxi by phone to the airport, the taximeter value from the point the taxi is booked to where he picks you up should be added to the fixed price mentioned above.
http://www.aena.es/en/sevilla-airport/taxi.html

Another option could be to use "Cabify", which is the Spanish version of Uber.

By Bus:

There is a bus service to and from the airport every ~30 minutes.

To get to Hotel Reyes Católicos take the EA bus from the airport in the direction "Plaza de Armas" and get off at "Marques de Paradas", which is the second-to-last stop at 2 minutes walking distance to the hotel.
https://reddelineas.tussam.es/?linea=EA&lang=en#

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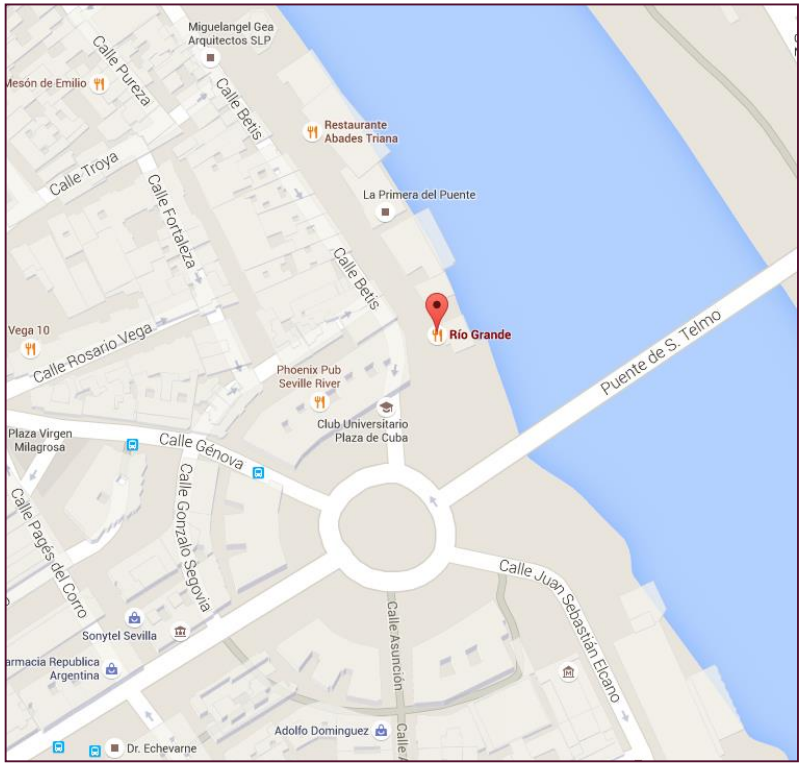
RECEPTION

Restaurante Río Grande
Calle Betis, S/N
41010 Sevilla
http://riogrande-sevilla.com/

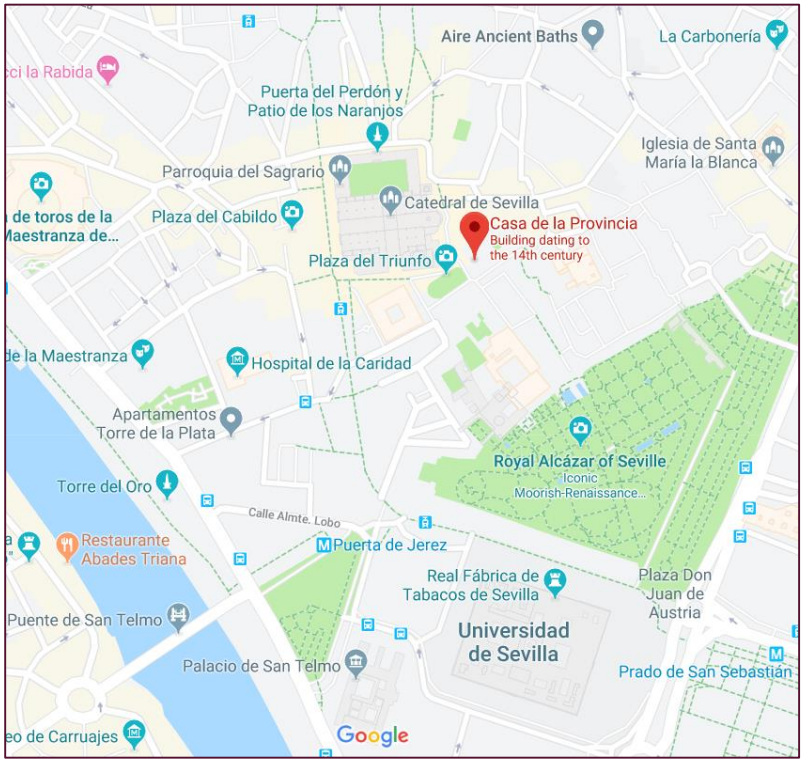
Dress code: smart casual



PUBLIC TALK

Acelerando partículas para tratar el cáncer
Prof María Isabel Gallardo (Universidad de Sevilla)

Casa de la Provincia
Pl. del Triunfo, 1
41004 Sevilla



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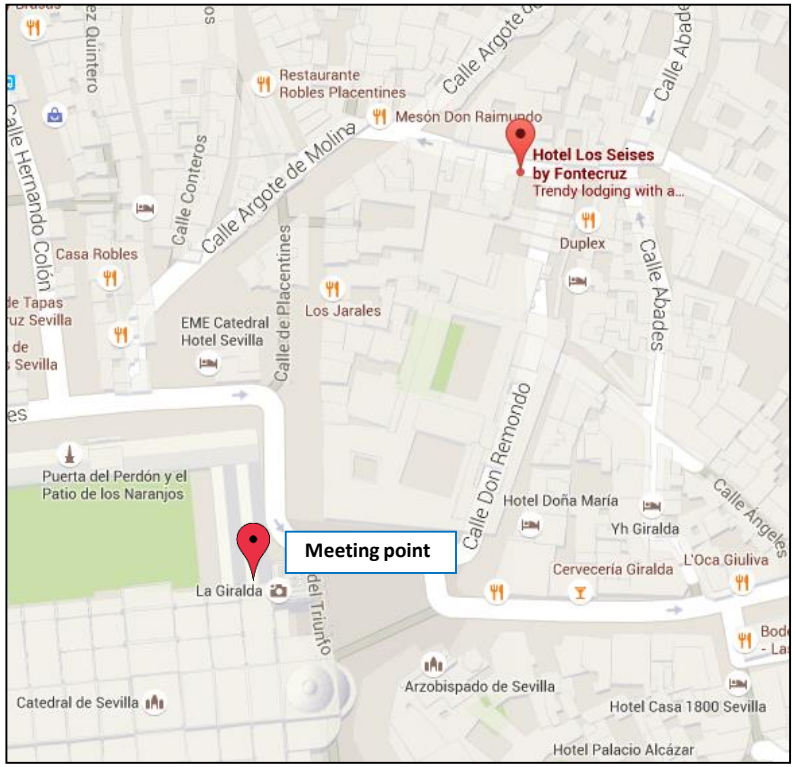
CONFERENCE DINNER

Hotel Fontecruz Sevilla Seises
Calle Segovias, 6
41004 Sevilla
http://www.fontecruzhoteles.com/hotel-fontecruz-sevilla-seises/

Dress code: smart



MEETING POINT

We will meet at the fountain by "La Giralda“ (the Cathedral) at **20:15**

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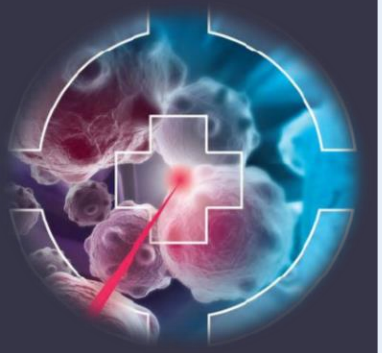

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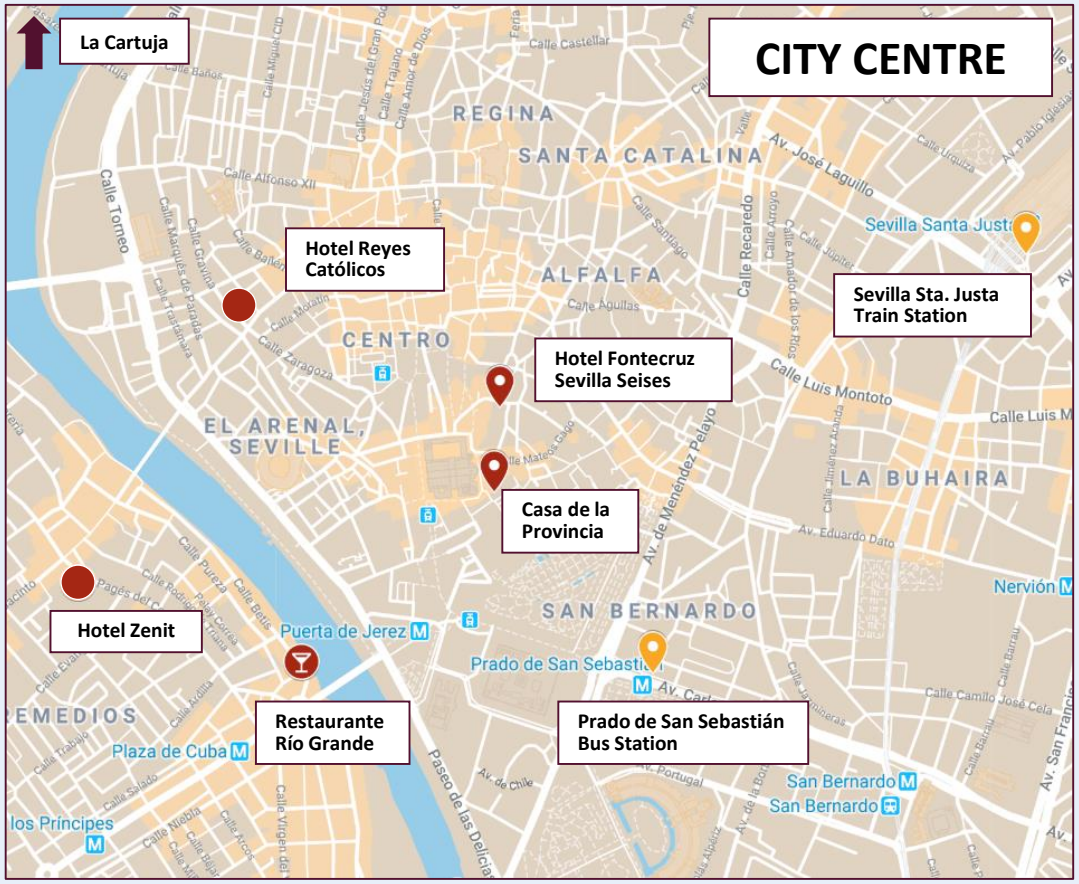

Emergency numbers

Carsten Welsch +44 7973 247982
Anna Baratto Roldán: +34 633 326352
Miguel Cortés Giraldo: +34 616 102961

We are looking forward to welcoming you to Seville!

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