

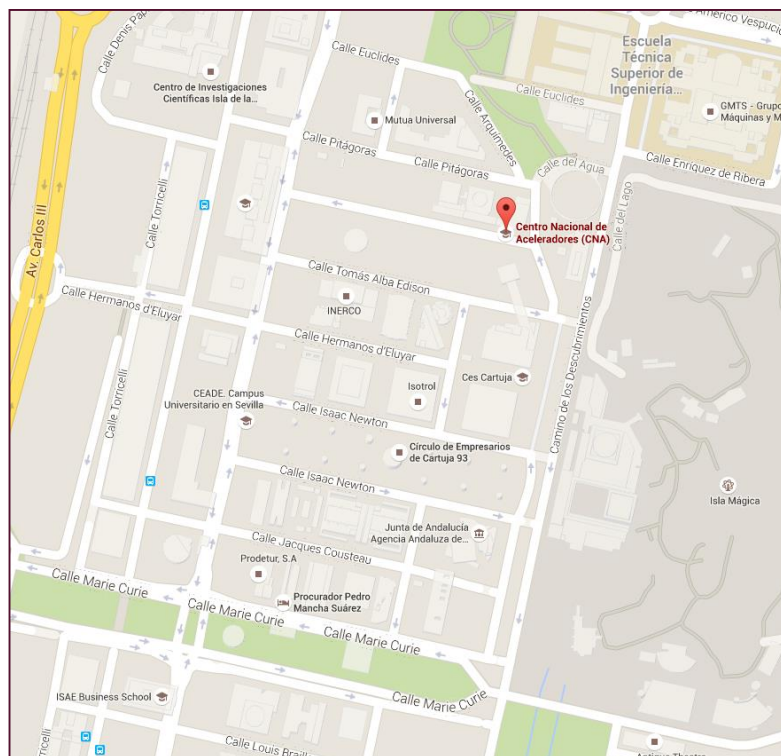
International Conference Medical Accelerators and Particle Therapy

4 – 6 September 2019, CNA, Seville, Spain



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

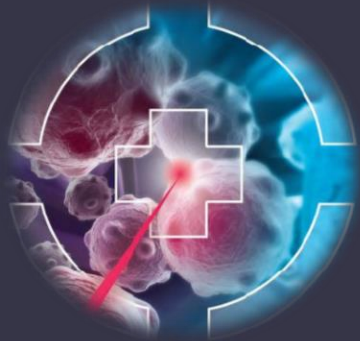


This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 675265.



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BUS TRANSFER HOTEL ZENIT – CNA – HOTEL ZENIT

A coach will depart from Hotel Zenit to CNA at 8:00 (Wed), and 8:15 (Thu & Fri).

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

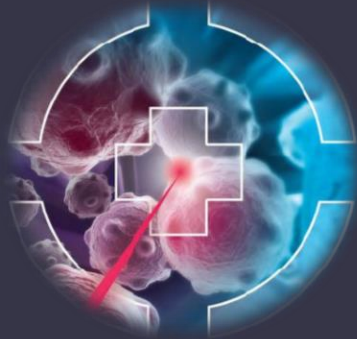


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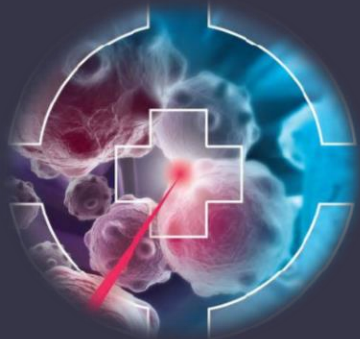
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		Wednesday		Thursday		Friday		
09:00	Introduction	Welcome and Introduction (CNA, tbc) State of the art in ion beam therapy Carsten P Welsch (ULIV)	09:00	Invited	Monte Carlo Dosimetry Antonio Lallena	09:00	Invited	4D Patient monitoring Guido Baroni (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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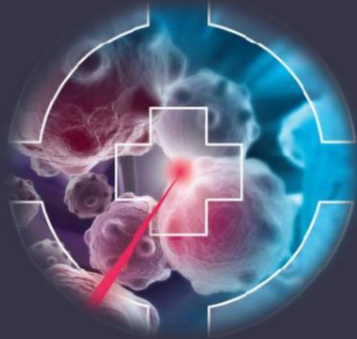
		Wednesday			Thursday
15:00	Contributed	Characterisation of the LHCb VELO detector modules as a non-invasive Proton Beam Monitor Roland Schnuerer			Poster session
15:20	Contributed	Beamline characterization of a Dielectric-filled Reentrant Cavity Resonator as a Beam Current Monitor for medical cyclotron beamline at PSI, Switzerland: Its advantages 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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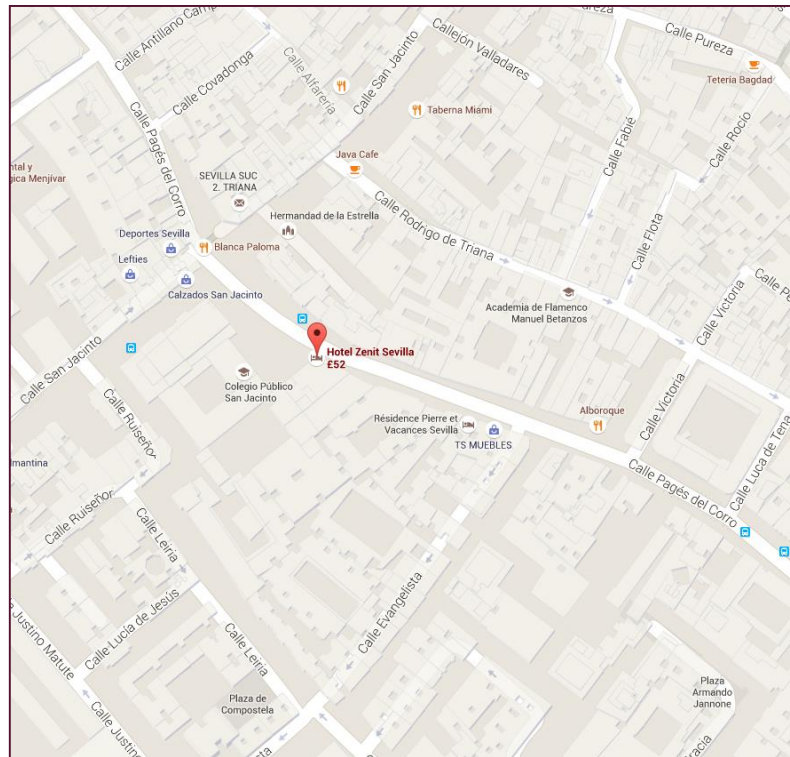


ACCOMMODATION

Hotel Zenit

Calle Pagés del Corro, 90
41010 Sevilla

<http://sevilla.zenithoteles.com/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.

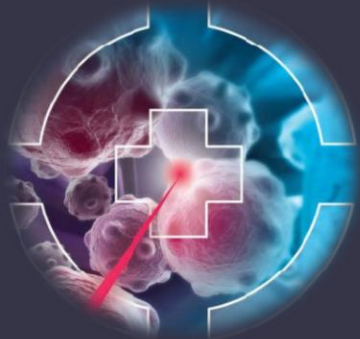
By Bus:

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

To get to Hotel Zenit take the EA bus from the airport in the direction "Plaza de Armas" and get off at "Avenida del Cid / Prado de San Sebastián". From there you can take the bus C3 to Pagés del Corro street.

<https://reddelneas.tussam.es/?linea=EA&lang=en#>





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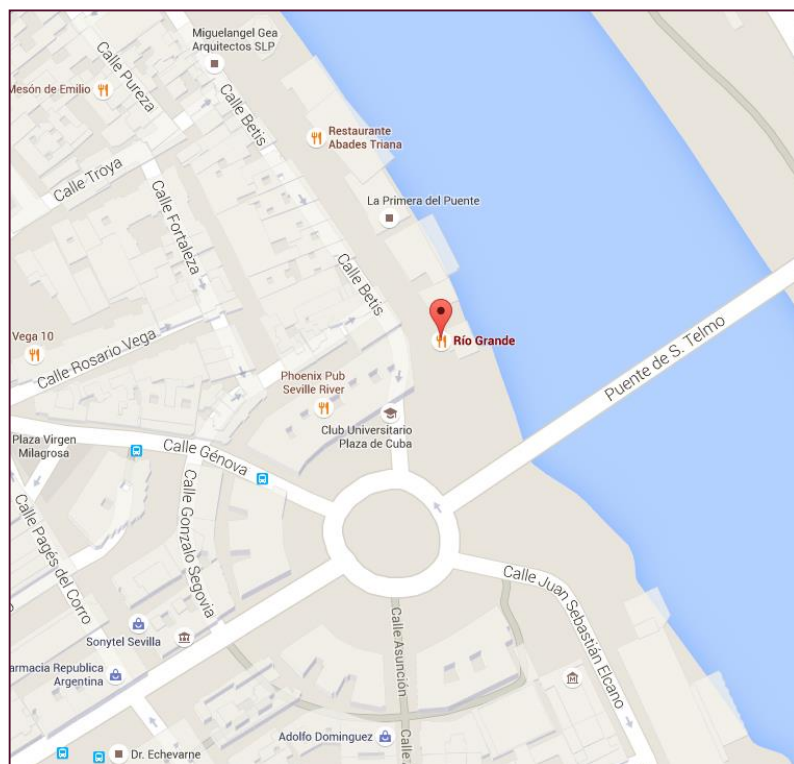
RECEPTION

Restaurante Río Grande
Calle Betis, S/N
41010 Sevilla

<http://riogrande-sevilla.com/>



Dress code: smart casual

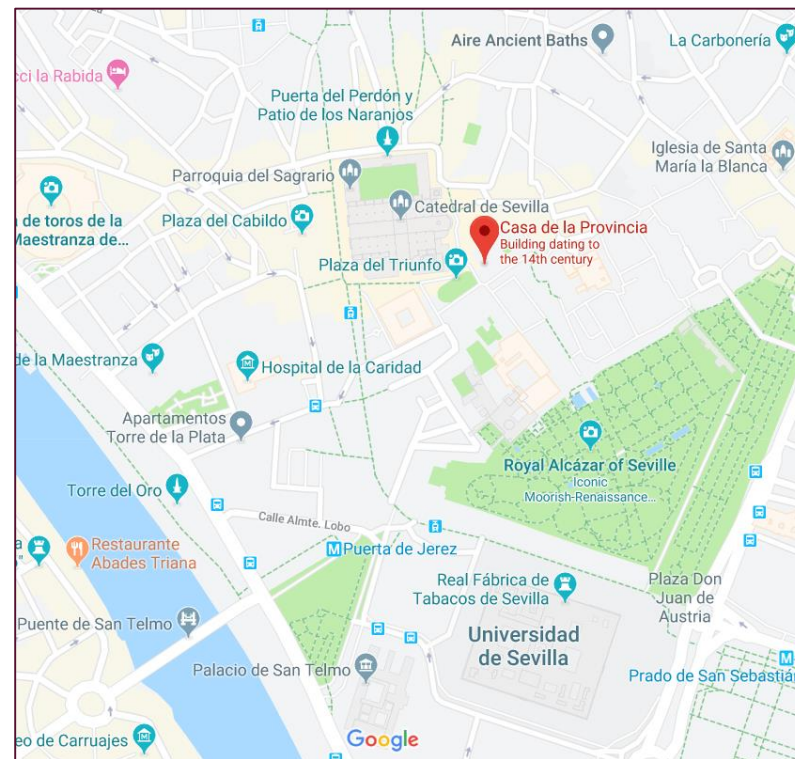


PUBLIC TALK

Acelerando partículas para tratar el cáncer

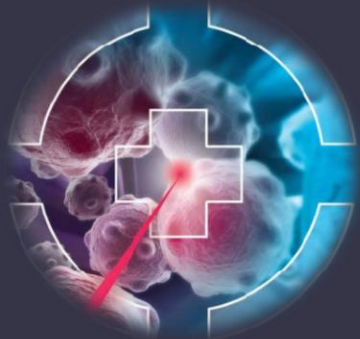
Prof María Isabel Gallardo (Universidad de Sevilla)

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



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CONFERENCE DINNER

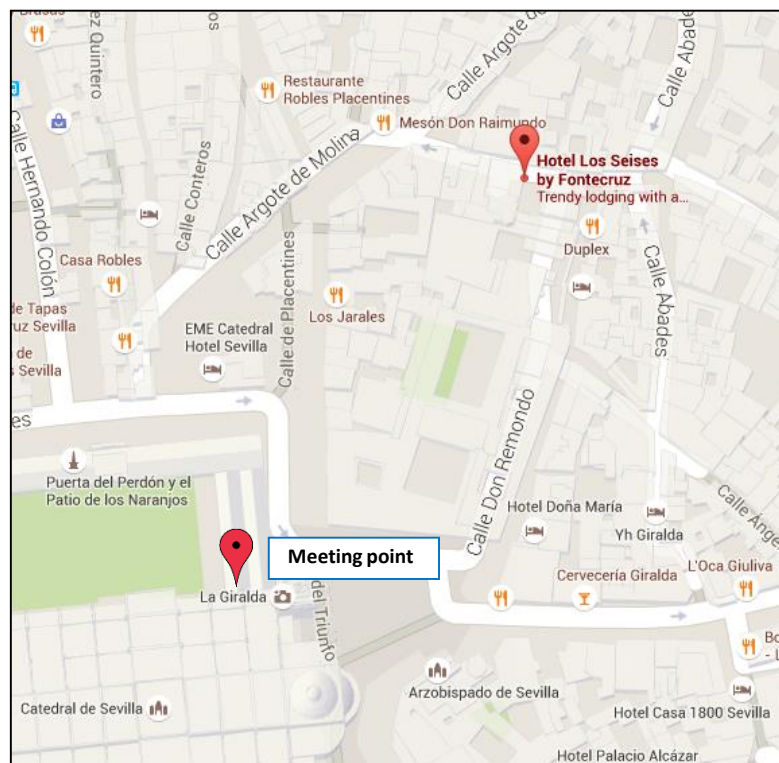
Hotel Fontecruz Sevilla Seises

Calle Segovias, 6

41004 Sevilla

<http://www.fontecruzhoteles.com/hotel-fontecruz-sevilla-seises/>

Dress code: smart



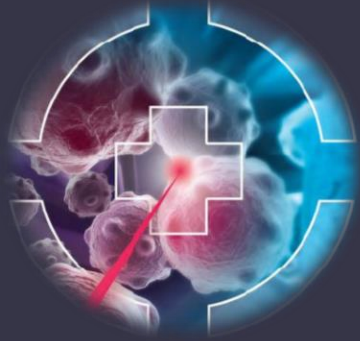
MEETING POINT

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



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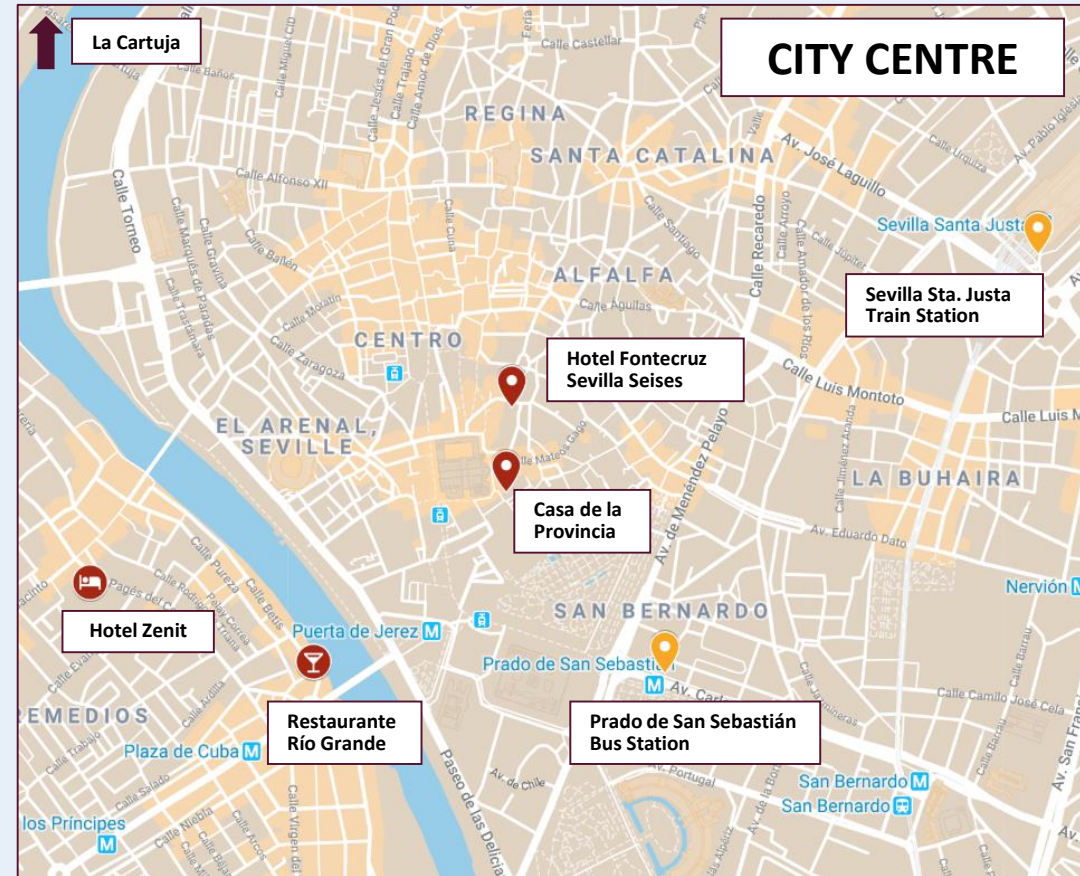


LA CARTUJA



Centro Nacional de Aceleradores (CNA)

CITY CENTRE



Hotel Fontecruz Sevilla Seises

Casa de la Provincia

Hotel Zenit

Restaurante Río Grande

Sevilla Sta. Justa Train Station

Prado de San Sebastián Bus Station

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!**

