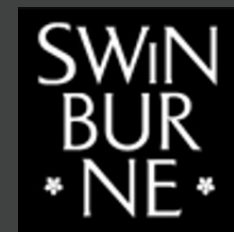




Zuzana Slavkovská

Postdoctoral Fellow
Australian National University
Department of Nuclear Physics



Research Background

Research Background

Studied 2009 - 2014

Goethe University Frankfurt, Germany

- Experimental Nuclear Astrophysics

**PhD 2015 - 2018 at GSI Helmholtz Centre
for Heavy Ion Research, Germany**

- Astrophysics with Storage Rings



Frankfurt

[1]

Research Background

Studied 2009 - 2014

Goethe University Frankfurt, Germany

- Experimental Nuclear Astrophysics



Frankfurt [1]

PhD 2015 - 2018 at GSI Helmholtz Centre for Heavy Ion Research, Germany

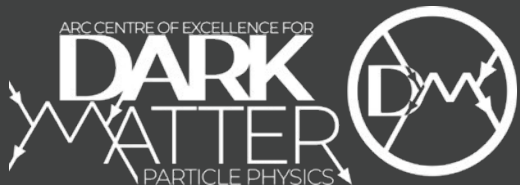
- Astrophysics with Storage Rings



Canberra [2]

Postdoc at ANU since Feb 2019

- Accelerator Mass Spectrometry



My Contribution to ARC CoE for Dark Matter Particle Physics

Metrology



Steve Tims



Michaela Froehlich



Zuzana Slavkovská

My Contribution to ARC CoE for Dark Matter Particle Physics

Metrology

SABRE: Impurity Estimation

- low background detector
- how much radioactivity present?
- ^{210}Pb , ^{232}Th , ^{238}U , ^{40}K
- ICP-MS, Collaboration with Research School of Earth Sciences at ANU



Steve Tims



Michaela Froehlich



Zuzana Slavkovská

Type of NaI powder	^{39}K content	amount
Growth grade	340 mg / g	A lot
Astro grade	140 ng / g	Less
Next year	?	Even less?

My Contribution to ARC CoE for Dark Matter Particle Physics

Metrology

SABRE: Impurity Estimation

- low background detector
- how much radioactivity present?
- ^{210}Pb , ^{232}Th , ^{238}U , ^{40}K
- ICP-MS, Collaboration with Research School of Earth Sciences at ANU



Steve Tims



Michaela Froehlich



Zuzana Slavkovská

Type of NaI powder	^{39}K content	amount
Growth grade	340 mg / g	A lot
Astro grade	140 ng / g	Less
Next year	?	Even less?

Direct Detection, Supervision of Students in 2021



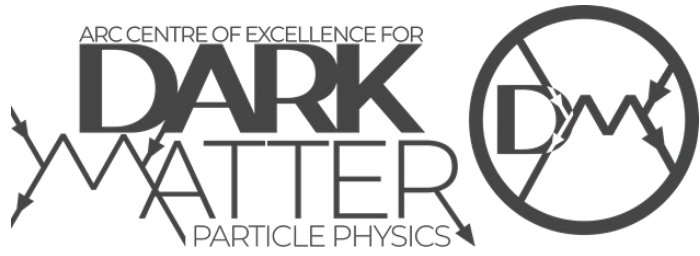
Dr. Zuzana Slavkovská

Position	Postdoctoral Fellow
University	Australian National University
Department	Department of Nuclear Physics
Office Phone	(02) 612 55179
Email	zuzana.slavkovska@anu.edu.au
Office	Nuclear Physics 2.49

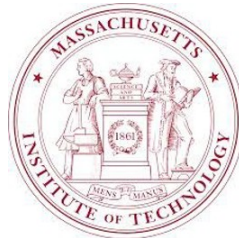
References

[1] <https://depositphotos.com/40115607/stock-photo-frankfurt-germany.html>

[2] <https://www.mynrma.com.au/holidays/holiday-finder/locals-guide/canberra>



INTERNATIONAL PARTNER ORGANISATIONS:



The University of Sheffield.

