

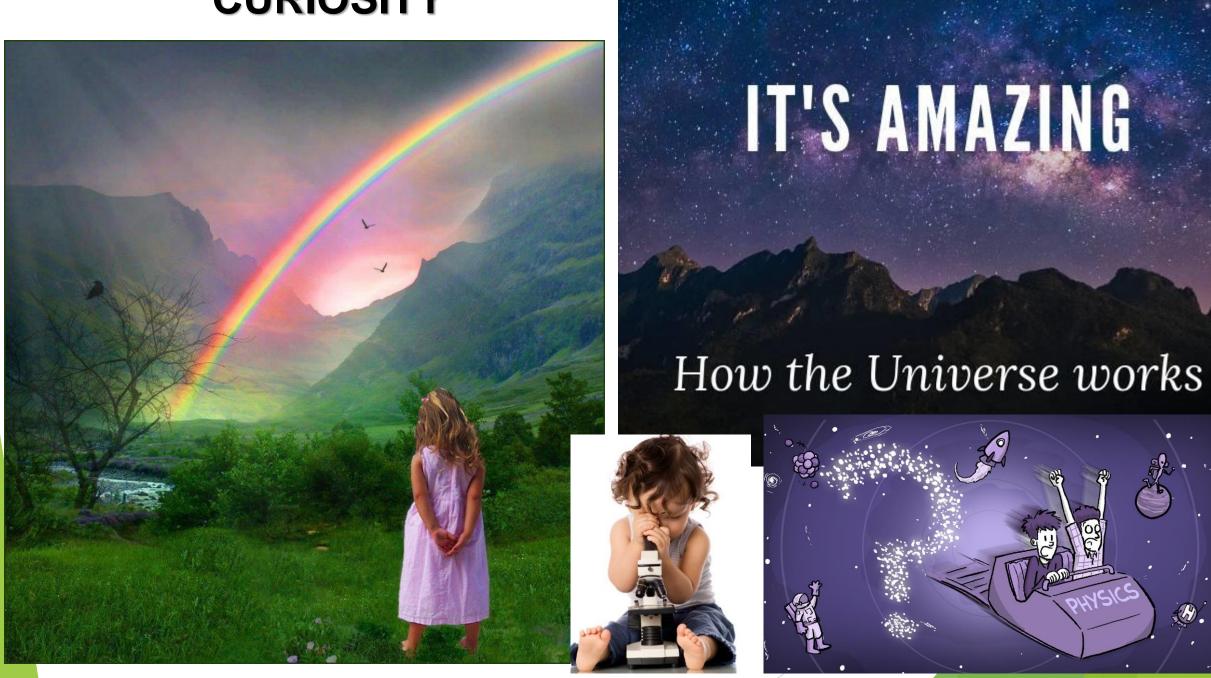
LNF-INFN, Frascati, 11 Feb 2020



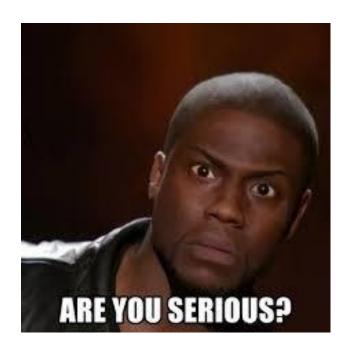
Magdalena Skurzok

INTRODUCTION Russia Lithuania Mar Baltico Danzica Pomerania Warmia-Masuria Olsztyn Podlachia Białystok Pomerania Occidentale Bydgoszcz Cuiavia-Pomerania Toruń Masovia Varsavia Bielorussia Poznań Grande Polonia Lublino Lublino Łódź **Poland** Breslavia Bassa Slesia Santacroce Rzeszów Precarpazia Cracovia Piccola Polonia Ucraina Repubblica Ceca Slovacchia Born in Jaworzynka in 1986

CURIOSITY



W.



BREAK STEREOTYPES!!!

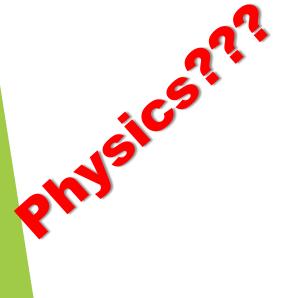
"It is rather job for men"

"You will not be good enough"

"It is too hard work for woman"

"Women are less intelligent to do the science"







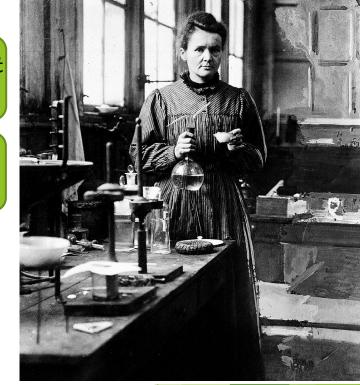
SHE BROKE GENDER STEREOTYPES

Maria Skłodowska - Curie (1867-1934)

- Polish physicist and chemists
- Conducted pioneering research on radioactivity
- The first woman to win a Nobel Prize
- The first person and the only woman to win the Nobel Prize twice:
- > Physics: joint researches on the radiation phenomena (1903)
- Chemistry: discovery of Polonium and Radium (1911)

"Nothing in life is to be feared, it is only to be understood"

"I am among those who think that science has great beauty"











MASTER AND PH.D. STUDIES



Jagiellonian University in Krakow

nternational PhD Studies in Applied Nuclear Physics and Innovative Technologies

Foundation for Polish Science

Research Grant PRELUDIUM 6

Polish National Science Center, No. 2013/11/N/ST2/04152;
Principal Investigator





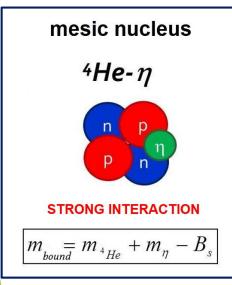
ACTIVITY IN FORSCHUNGSZENTRUM JÜLICH

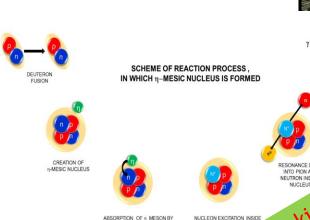
Master Thesis:

Feasibility study of η -mesic nuclei production by means of the WASA-at-COSY and COSY-TOF facilities

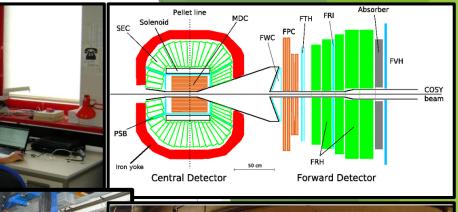
Ph.D. Thesis:

Search for $\eta\text{-mesic}$ helium via dd -> $^3\text{Hen}\pi^0$ reaction by means of the WASA-at-COSY facility





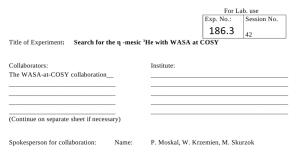


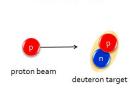




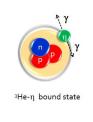
In 2014 experimental run coordinator: search for ${}^{3}\text{He-}\eta$ mesic nuclei

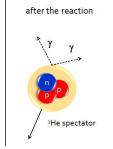
COSY Proposal /Letter of Intent /Beam Request





before the reaction





HOW I GOT HERE (LNF-INFN)?

From 2013 collaboration with Prof. Catalina Curceanu Group

- AMADEUS collaboration
- SIDDHARTA-2 collaboration
- Research visits in INFN LNF

(2016-2018) PostDoc Position at Jagiellonian University

Research Grant SONATA11: Data analysis for AMADEUS
Polish National Science Center, No. 2016/21/D/ST2/01155; Principal Investigator

From 2018 PostDoc INFN Fellowship for non-italian citizens

SIDDHARTA-2 experiment

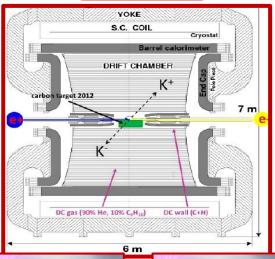


STRANGENESS STUDIES AT LNF-INF

"exotic" (kaonic) hydrogen

SIDDHARTA-2

AMADEUS

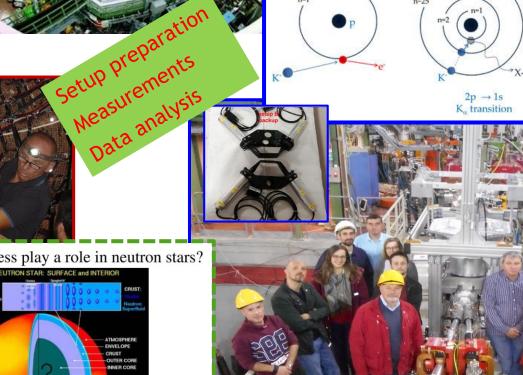




K- absorbed from atomic orbit

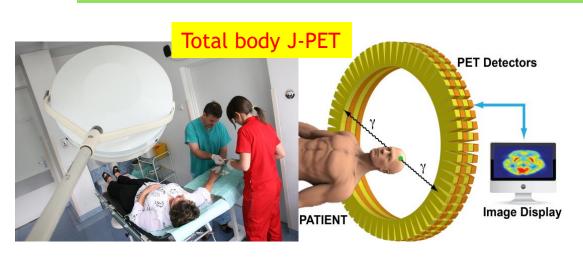
Could strangeness play a role in neutron stars?

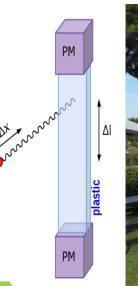
DAFNE collider



"normal" hydrogen

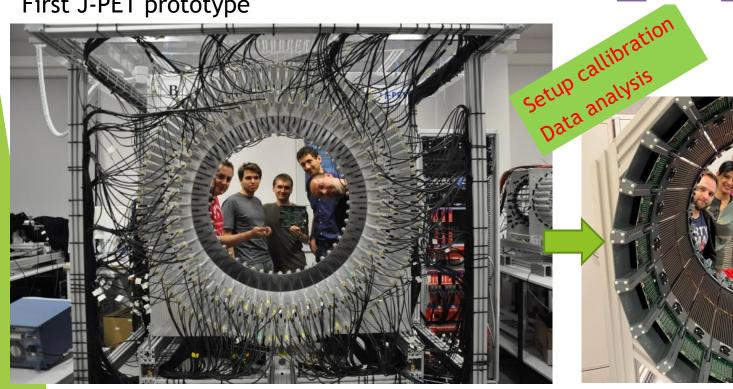
I am also involved in J-PET activities - application of nuclear physics in medicine







First J-PET prototype



Mobile J-PET prototype



Reasearcher life...

Patience

e.x. You cannot find the error in your code...



Sacrifice

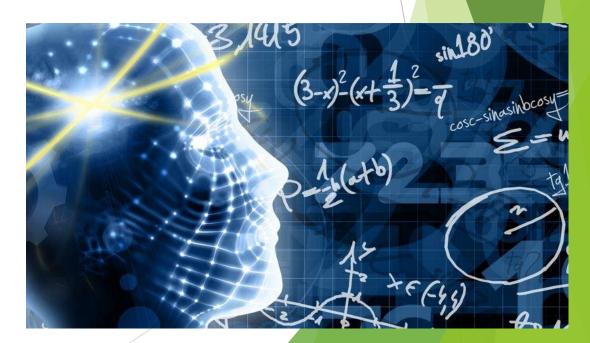
e.x. Participate skype meeting with Japaneese at 6 a.m.





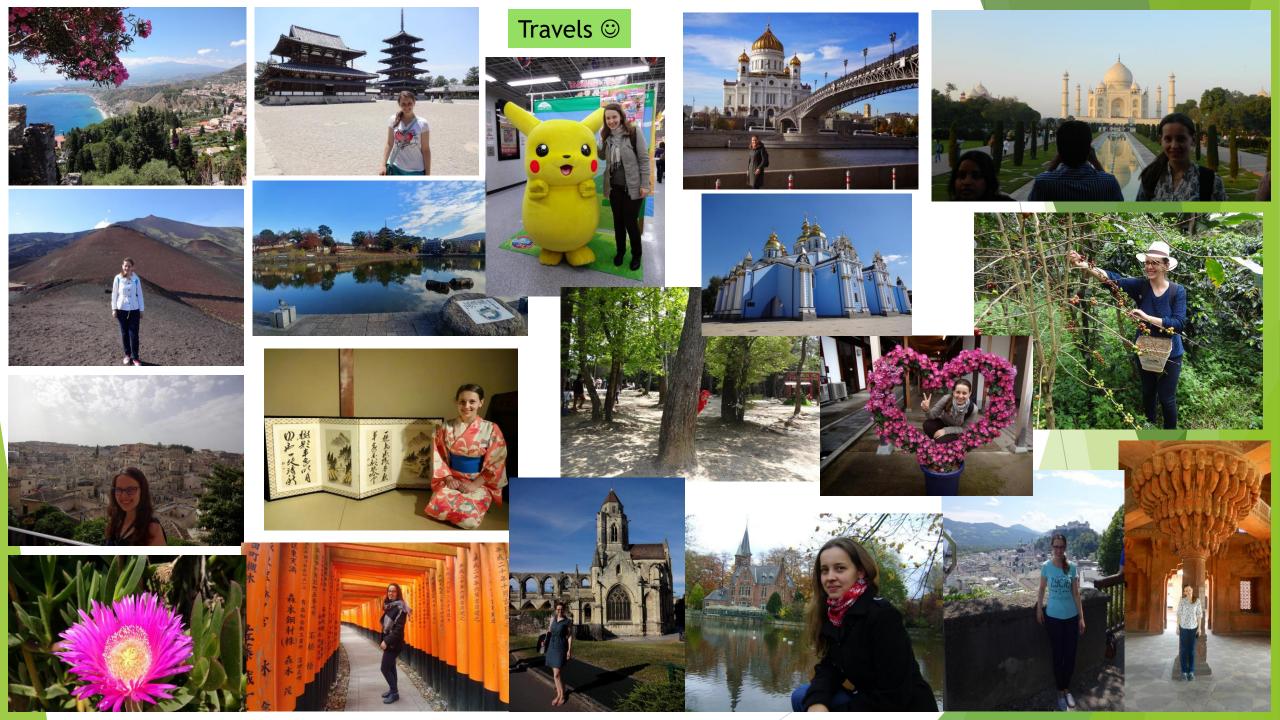


Opportunities for development



Conferences/collaboration ©







Beyond Physics ...



















Follow your passions...



"We must have perserverence and above all confidence in ourselves. We must believe that we are gifted for something"

Dziękuję za uwagę © Grazie per l'attenzione ©