[H2020-ARIEL] "TRIGA MAINZ Lab Course on Reactor Operation and Nuclear Chemistry"

Report of Contributions

Get-together receiption

Contribution ID: 46 Type: not specified

Get-together receiption

Sunday 19 November 2023 18:00 (2 hours)

Welcome adress

Contribution ID: 53 Type: not specified

Welcome adress

Monday 20 November 2023 09:00 (10 minutes)

Contribution ID: 54 Type: not specified

Instructions on safety and radiation protection

Monday 20 November 2023 09:10 (20 minutes)

Contribution ID: 55 Type: not specified

Lecture: Basic reactor physics (C. Geppert)

Monday 20 November 2023 09:30 (1 hour)

Lecture: Basic reactor physics (C. · · ·

[H2020-ARIEL] · · · / Report of Contributions

Test

Contribution ID: 56 Type: not specified

Test

Contribution ID: 57 Type: not specified

Lecture: The OKLO Phenomenon: The Natural Nuclear Fission Reactor in Gabon, Africa

Monday 20 November 2023 11:00 (1h 30m)

Lecture: The OKLO Phenomenon: · · ·

Contribution ID: 58 Type: not specified

Lecture: The research reactor TRIGA Mainz (K. Eberhardt)

Monday 20 November 2023 13:30 (1 hour)

Lecture: The research reactor TR · · ·

Contribution ID: 59 Type: not specified

Lecture: TRIGA reactor control panel (C. Geppert)

Monday 20 November 2023 14:30 (30 minutes)

Lecture: TRIGA reactor control p · · ·

Contribution ID: **60** Type: **not specified**

Group 1: 1.1 - Reactor start-up procedure 1.2 - Lecture: Production of ultra-cold neutrons at the TRIGA Mainz

Monday 20 November 2023 15:00 (2 hours)

Contribution ID: 61 Type: not specified

Group 2: 2.1 - Lecture: Production of ultra-cold neutrons at the TRIGA Mainz 2.2 - Reactor start-up procedure

Monday 20 November 2023 15:00 (2 hours)

Contribution ID: **62** Type: **not specified**

Lecture: The Discovery of nuclear fission (T. Reich) / Introduction to the experiments (C. Geppert, K. Eberhardt)

Tuesday 21 November 2023 09:00 (1 hour)

Lecture: The Discovery of nuclear · · ·

Contribution ID: 63 Type: not specified

Introduction to the experiments (C. Geppert, K. Eberhardt)

Contribution ID: 64

Type: not specified

Group 1 - Steady state reactor operation @ 10 W / Reactivity experiment with Cd samples

Tuesday 21 November 2023 10:00 (2 hours)

Contribution ID: 65 Type: not specified

Group 2 - Reactivity experiment with Cd samples / Steady state reactor operation @ 10 W

Tuesday 21 November 2023 10:00 (2 hours)

Contribution ID: 66

Type: not specified

Group 1 - Pulse mode operation (up to 200 MW peak power) / Reactor pulse time structure Visual inspection reactor pool

Tuesday 21 November 2023 13:00 (3 hours)

Contribution ID: 67

Type: not specified

Group 2 - Reactor pulse time structure Visual inspection reactor pool / Pulse mode operation (up to 200 MW peak power)

Tuesday 21 November 2023 13:00 (3 hours)

Contribution ID: 68 Type: not specified

Discussion of the experimental results

Tuesday 21 November 2023 16:00 (1 hour)

Contribution ID: 69 Type: not specified

Lecture: Activation experiments for nuclear astrophysics studies (T. Heftrich)

Wednesday 22 November 2023 09:00 (1h 30m)

Lecture: Activation experiments f · · ·

Contribution ID: **70** Type: **not specified**

Lecture: Application of research reactors (N. Passeo Barradas)

Wednesday 22 November 2023 11:00 (1h 30m)

Lecture: Application of research r $\,\cdots$

Contribution ID: 71 Type: not specified

Introduction to the experiments

Wednesday 22 November 2023 13:30 (30 minutes)

Contribution ID: 72 Type: not specified

Group 1 - Decay scheme of Os-190m / Measurement of β -delayed neutrons

Wednesday 22 November 2023 14:00 (2h 30m)

Contribution ID: 73 Type: not specified

Group 2 - Measurement of β-delayed neutrons / Decay scheme of Os-190m

Wednesday 22 November 2023 14:00 (2h 30m)

Contribution ID: 74 Type: **not specified**

Discussion of the experimental results

Wednesday 22 November 2023 16:30 (30 minutes)

Contribution ID: 75 Type: not specified

Radiation protection measures: Practical exercises

Thursday 23 November 2023 09:00 (1h 30m)

Contribution ID: 76 Type: not specified

Introduction to the experiments

Thursday 23 November 2023 13:00 (30 minutes)

Contribution ID: 77 Type: **not specified**

Experiments on the discovery of nuclear fission

Thursday 23 November 2023 13:30 (3 hours)

Contribution ID: 78 Type: not specified

Discussion of the experimental results

Thursday 23 November 2023 16:30 (30 minutes)

Contribution ID: 79 Type: not specified

Lecture: Neutron Activation Analysis (C. Stieghorst)

Friday 24 November 2023 09:30 (1h 30m)

Lecture: Neutron Activation Ana · · ·

Final discussion

Contribution ID: 80 Type: not specified

Final discussion

Friday 24 November 2023 11:00 (1 hour)