

# **PJM First Presentations 2026**

## **Report of Contributions**

Contribution ID: 17

Type: **not specified**

## Optimisation of PET detectors

*Friday, 19 June 2026 13:00 (10 minutes)*

**Presenter:** SITHABISO MSANE (UJ)

Contribution ID: **18**

Type: **not specified**

## **Big data processing: Search for dark matter particles at ATLAS**

*Friday, 19 June 2026 13:10 (10 minutes)*

**Presenter:** KGOMOTSO ZWAKALA (UJ)

Contribution ID: 19

Type: **not specified**

## **Performance of nanocrystalline diamond rod radiation hard humidity sensors in radiation intense applications**

*Friday, 19 June 2026 13:20 (10 minutes)*

**Presenter:** KEVIN MURUNWA MATAMELA (UJ)

Contribution ID: 20

Type: **not specified**

## **Implementation of IoT sensors for UJ Green house.**

*Friday, 19 June 2026 14:30 (10 minutes)*

**Presenter:** NKOSEPHAYO ZWANE (UJ)

Contribution ID: 21

Type: **not specified**

## **4IR Sensors for Extreme Environments (SEE) – Instrumentation of Nuclear Reactors**

*Friday, 19 June 2026 13:40 (10 minutes)*

**Presenter:** ACHIEVER TANDOH TENENG (UJ)

Contribution ID: 22

Type: **not specified**

## Optimisation of XRT Sorting

*Friday, 19 June 2026 13:50 (10 minutes)*

**Presenter:** SINESIPHO NKOSI (UJ)

Contribution ID: 23

Type: **not specified**

## **Computer simulation of diamond as a resilient material in high radiation environments**

*Friday, 19 June 2026 13:30 (10 minutes)*

**Presenter:** MKHULEKO NDWANDWE (UJ)

Contribution ID: 24

Type: **not specified**

## **CFD Study of the APB Greenhouse at the CEI**

*Friday, 19 June 2026 14:00 (10 minutes)*

**Presenter:** TSHEPISO F MOGAJANA (UJ)

Contribution ID: 25

Type: **not specified**

## **Study temperature sensitivity on diamond coated Fibre Optic Sensor (FOS)**

*Friday, 19 June 2026 14:20 (10 minutes)*

**Presenter:** ALIZWA PIKOLOMZI SOBANTWANA (UJ)

Contribution ID: 26

Type: **not specified**

## **Study the humidity sensitivity on diamond coated FOS**

*Friday, 19 June 2026 14:40 (10 minutes)*

**Presenter:** AMUKELANI FORTUNATE NKUNA (UJ)

Contribution ID: 27

Type: **not specified**

## **GEANT4 simulation for a FOS dosimeter in a proton therapy.**

*Friday, 19 June 2026 14:50 (10 minutes)*

**Presenter:** MICHAEL MULISA RANNENYENI (UJ)

Contribution ID: 28

Type: **not specified**

## **Study the strain sensitivity on diamond coated FOS**

*Friday, 19 June 2026 15:00 (10 minutes)*

**Presenter:** LUQMAAN NANA (UJ)