

Masamu Advanced Study Institute (MASI) Convening Research Workshop Saturday, November 29, 2025

Agenda

16:00 – 16:20 **Analysis**

16:20 – 16:40 **Algebra and Geometry**: Formality of unit sphere tangent bundles

16:40 – 17:10 **Graph Theory**

17:10 – 17:50 **Finance**

17:10 Problem 1: Optimal Strategies for Managing Sovereign Wealth Funds: Case of Botswana

17:20 Problem 2: Analysis of after Retirement quality of life and its link to gambling.

17:30 Problem 3: Insurance-Reinsurance control problem where insurer has inside information

17:40 Problem 4: Modelling Resource Extraction and Production

17:50 – 17:55 **Break**

17:55 – 18:15 **Biostatistics**

18:15 – 18:35 **Health Economics**

18:35 – 19:55 **Mathematical Biology**

18:35 Hesitancy

18:55 New Immunology Models

19:15 Elephant

19:35 Fire and Wildlife

19:55 – 20:00 **Closing Remarks and Adjourn** - Professor Edward Lungu

MASI Convening Planning Workshop and Closing Session Sunday, November 30, 2025

Agenda

16:00 – 17:00 **2026 MASI Convening Planning Workshop and State of Masamu Program Address**

Session Chair: Professor Overtoun Jenda

- 2026 MASI Convening and Conference Logistics

- i. Message from 2026 Host: Dr. José Caluyna Pedro, Deputy Vice Chancellor at Universidade Mandume Ya Ndemufayo, and Associate Professor at University of Agostinho Neto, Luanda, Angola (5 mins)

- ii. Possible venues (meeting rooms, lodging, meals), transportation from hotel to campus, and excursion (20 mins)

- Workshops: STEM Education, Career Development, Heads and Chairs, and others (10 mins)

- Research Groups (5 mins)

- 2026 Masamu Colloquia Series (5 mins)

- State of the Masamu Program: Resilience and Long-term Viability (15 mins)

17:00 – 17:30 **Closing Session**

Session Chair: Professor Suzanne Lenhart

- Masamu Survey (5 mins)

- Open Forum (20 mins)

- Closing Remarks and Adjourn – Professor Edward Lungu (5 mins)