

Revitalizing STEM Learning in Ethiopia: Cascade Astronomy Outreach Initiatives for Schools

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Ethiopia is currently confronting significant challenges that limit equitable access to high-quality science education. In this context, astronomy outreach offers a powerful avenue to spark curiosity, cultivate scientific thinking, and strengthen student engagement in STEM disciplines. Supported by a Seed Grant from the AfAS Education and Outreach Committee, and implemented in collaboration with IDIA and the IAU General Assembly 2024, the program delivered a series of interactive, hands-on learning experiences. These activities covered key topics including solar astronomy, planetary science, night-sky observation, and the large-scale structure of the Universe, reaching students across four cities.



The outreach generated strong student enthusiasm, supported the creation of school astronomy clubs, and provided educational materials for sustainability. The results show that practical and inclusive astronomy outreach such as stargazing and sungazing can strengthen STEM literacy and inspire young learners, even in challenging educational environments