My AVN Experience...

University of Nairobi (Institute of Nuclear Science)

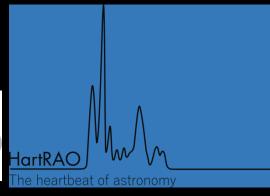
Radio Astronomy for Development in Africa- Newton Fund (UK)

Hartebeesthoek Radio Astronomy Observatory.

Ann Njeri

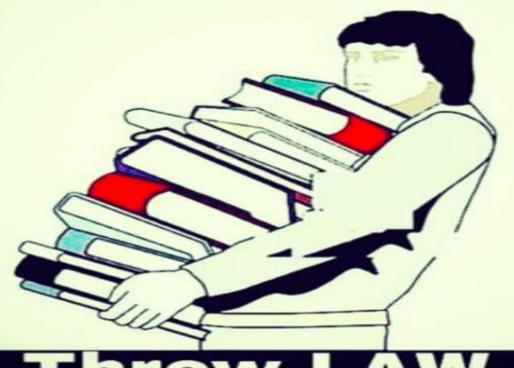






Growing up...

When someone says "Nothing can be more complicated than love"



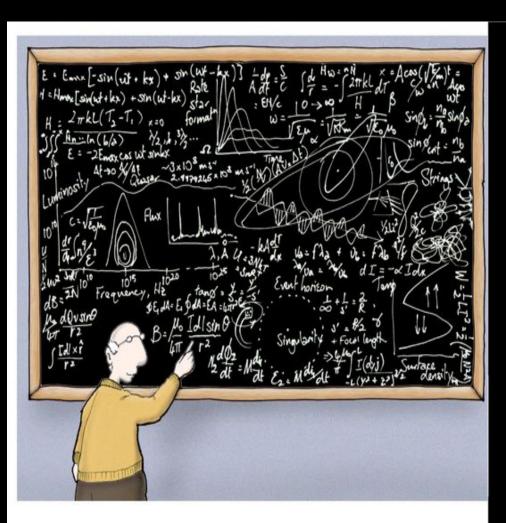
Just Throw LAW Books
On Their Faces

Then Columbia Space Shuttle accident happens...

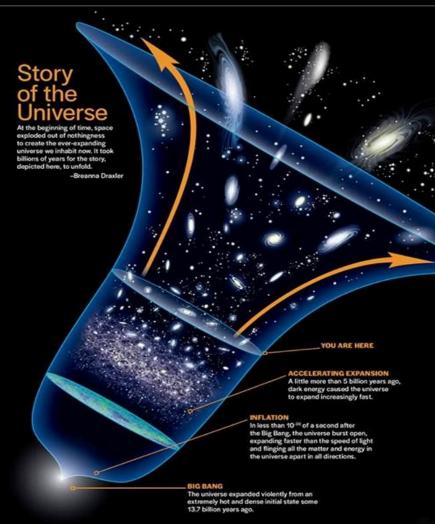




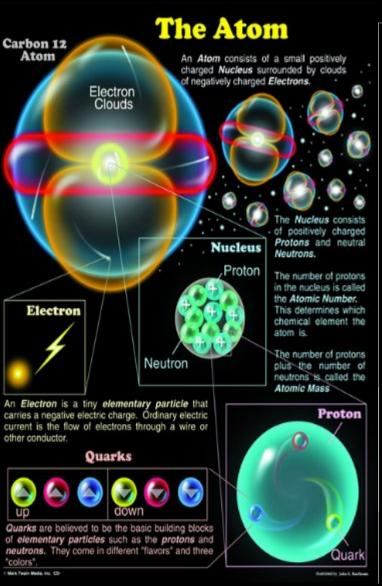
Enrolls for BSc Astronomy & Astrophysics...



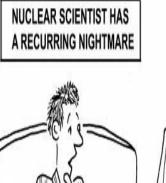
Astrophysics made simple

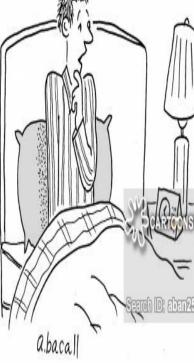


No postgraduate degree in astronomy...









"Did I remember to turn the atom smasher off?"

AVN 1ST Training...



Nairobi, October 2015.

AVN 2nd part of AVN Training..



HartRAO, Feb-March 2016.

IVS VLBI SCHOOL & GM...





3rd Part of AVN Training...

- Data reduction methods in astronomy:
- CASA







Nairobi, June 2016.

Post AVN Training...

AVN NEWTON FUNDED PROJECTS:

Kenya



1. Martin Mutie (Phd)



2. Ann Njeri (MSc)

Zambia

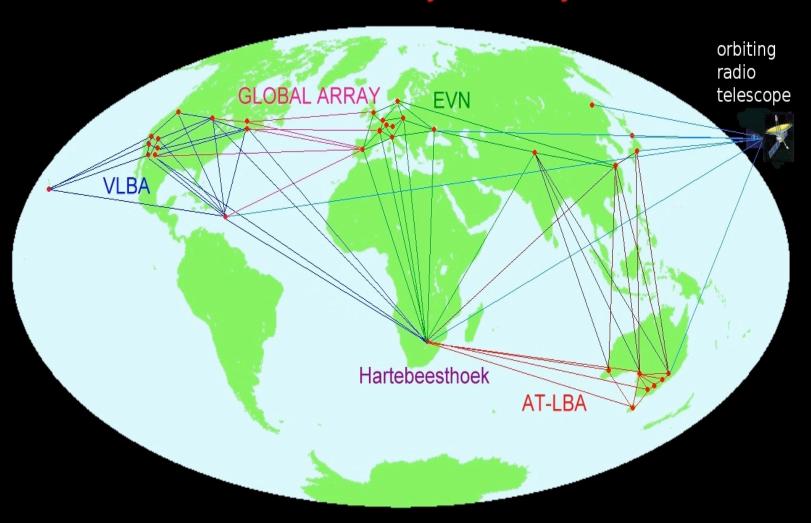


1. Peter Banda (MSc)

2. Esther (MSc-nots)

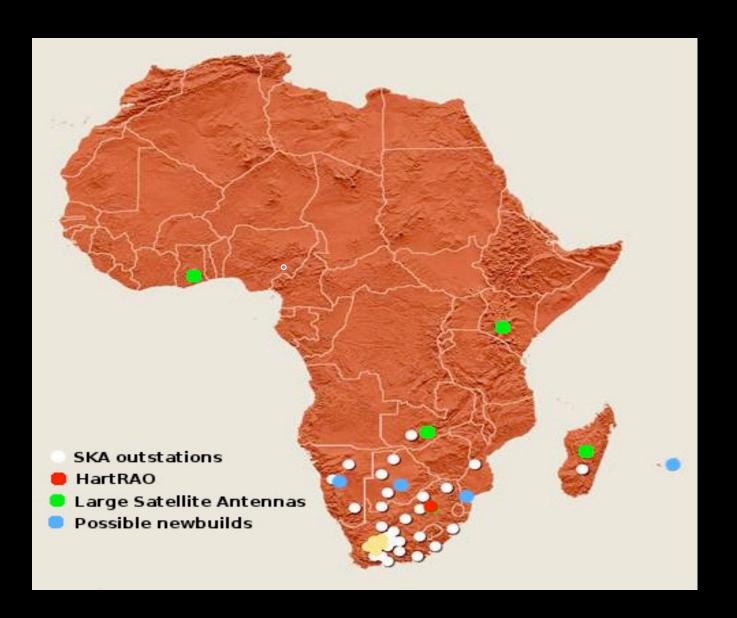
Global VLBI Networks

Radio Astronomy VLBI Arrays



My project: Optmizing the African VLBI Network for Astronomy, Geodesy and Astrometry: A Case Study for Kenya.

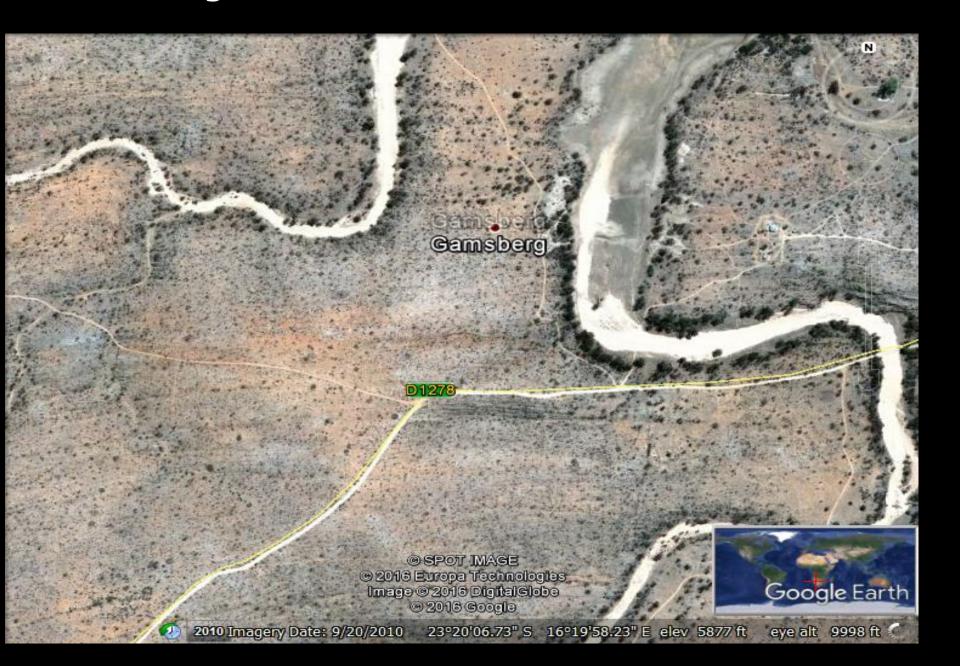
AVN antennas.



Mwembeshi AVN Site .. Zambia



Gemsberg AVN Site.. Namibia

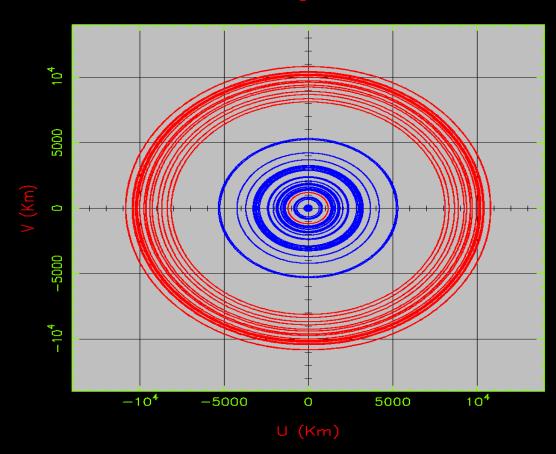


> U-V Coverage:

UV Coverage for Africa



DECLMS

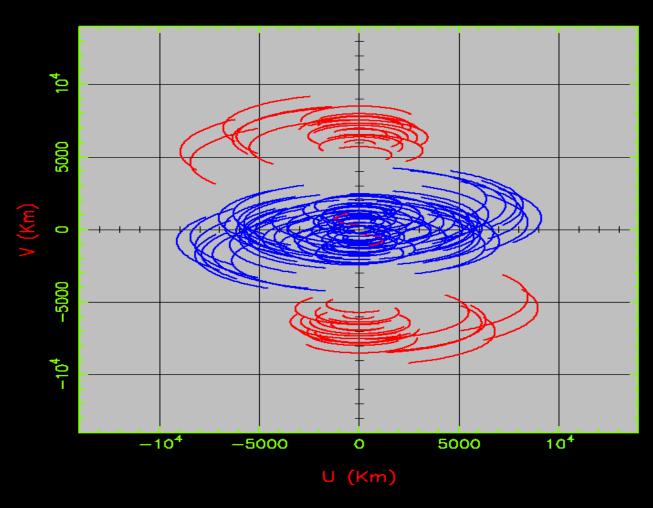


UV Coverage for Africa

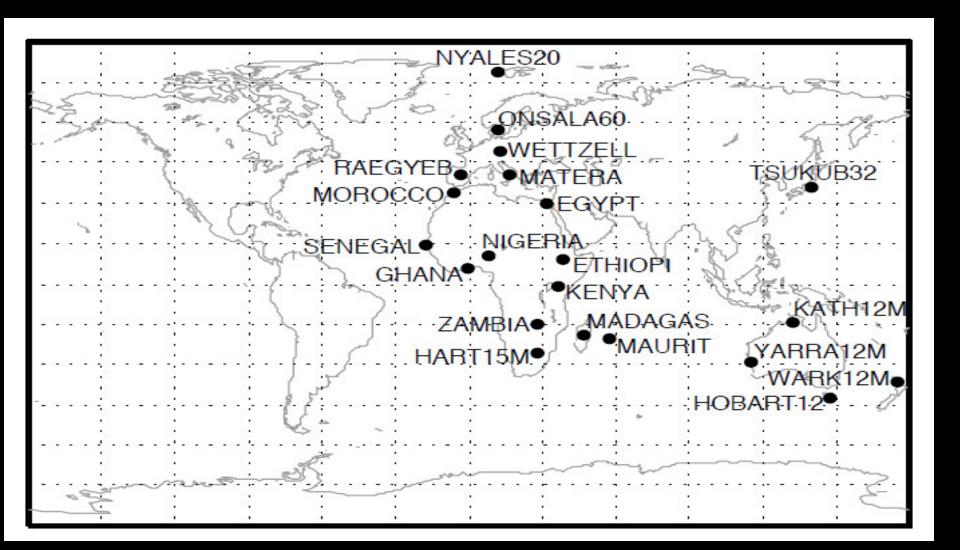
ZAMBIA NAMIRIA

NAMIBIA
TORUN
YEBES40M
MEDICINA
WSTRBORK
JODRELL1
SHANGHAI
NOTO
BADARY
ZELENCHK
SVETLOE
URUMQI

DECL₂₀

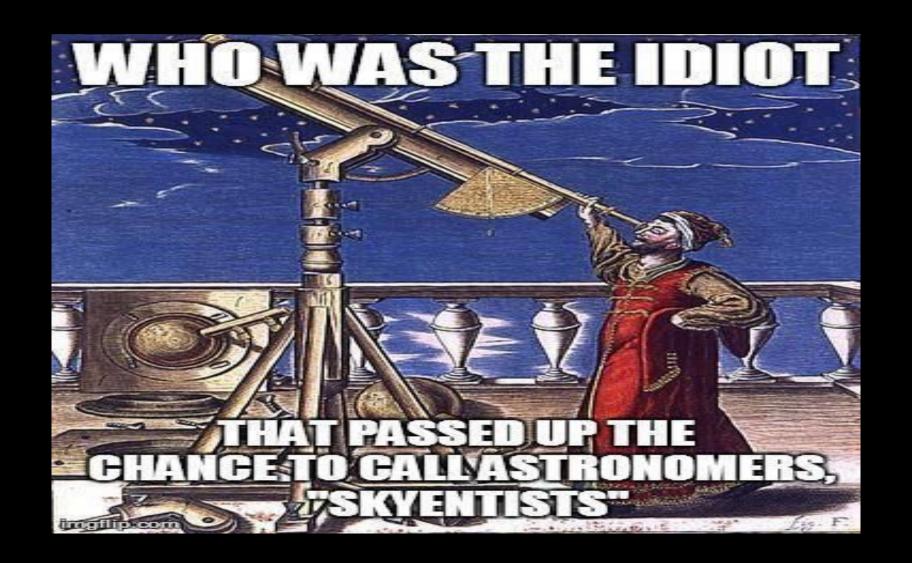


R1675+AVN



> Geodetic Products- Earth Orientation Parameters (EOPs):

Network	x_pol (µas)	y_pol (μas)	dut1 (ms)	nutdx (µas)	nutdy (µas)
R1675	41.43 ± 0.95	65.45 ± 1.49	5.12 ± 0.12	26.29 ± 0.60	25.36 ± 0.58
Group 1 + Ht	287.55 ± 6.73	170.87 ± 4.00	16.80 ± 0.39	56.66 ± 1.33	58.53 ± 1.37
Group $1 + 2 + Ht$	113.61 ± 1.86	43.80 ± 0.72	7.84 ± 0.13	22.99 ± 0.38	23.64 ± 0.39
Group 1 + R1675	22.54 ± 0.37	30.65 ± 0.51	2.57 ± 0.04	14.69 ± 0.24	15.18 ± 0.25
Group 1 + 2 + R1675	21.78 ± 0.30	22.19 ± 0.31	2.13 ± 0.03	12.50 ± 0.17	12.32 ± 0.17



QUESTIONS?