1.     Introduction

a.     Solar Activity/Cycles

b.     Solar Mean Magnetic Field

c.     Cosmic Rays

d.     Space Weather

e.     HiSPARC

2.     HiSPARC Usability for space weather/activity

1. a.     Introduction
2. b.     Aims
3. Properties
4. Air shower simulation (CORSIKA)
   1. footprints
   2. flux
5. c.     Standardization
6. d.     Pressure Temperature Correction
7. e.     Results for events&singles data on activity/GLEs/FDs
8. f.      Conclusions

3.     HiSPARC 14008

a.     Intro

b.     Aims

c.     Methods

d.     Set-up

e.     Calibration/testing

f.      Observations

g.     Conclusions

4.     GCR in Cycle 24

a.     Intro

b.     Aims

c.     Methods/data

d.     Results

e.     Conclusions

5.     SMMF sources (where does r-mode stuff fit?)

1. a.     Intro
2. b.     Aims
3. c.     Methods/data
4. d.     Results modelling observations from BiSON and WSO
5. Simulations artificial data
6. r-mode investigations
7. e.     Conclusions

6.     Conclusion

|  |  |
| --- | --- |
| GCR lag in solar cycle 24 | Solar cycle 24 is not special |
| GCR hysteresis in solar cycle 24 | |
| SMMF AR lifetimes | SMMF is attributed to Ars |
| SMMF r-modes visibility |  |
| HiSPARC standardisation | HiSPARC is useful for space weather and solar activity monitoring |
| HiSPARC 14008 |  |
| HiSPARC observations |  |