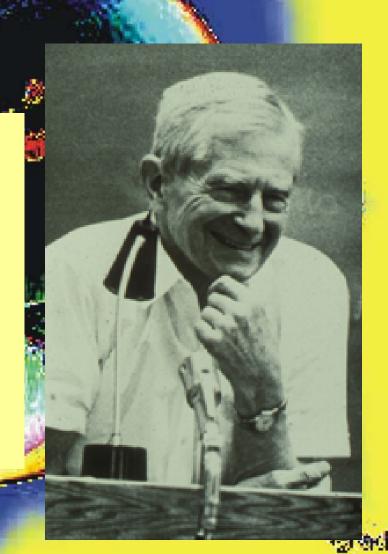


This Morning's Programme



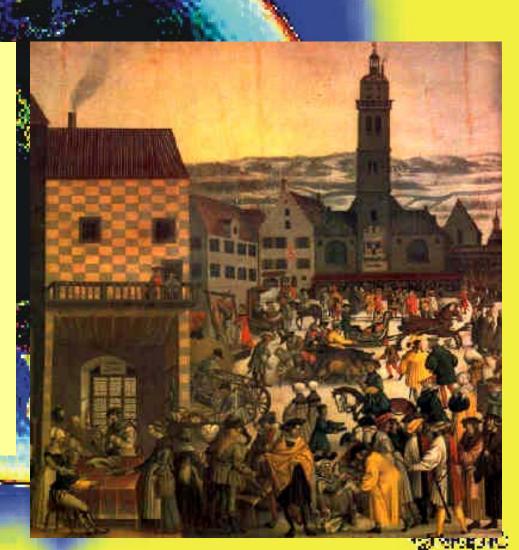


You need to have a good scientific idea or problem to be attacked!



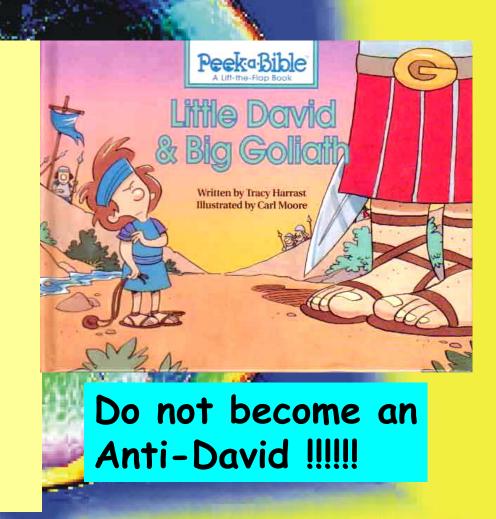
Rule 2:

Good or bad idea - that is defined by your peers. Take this into account!



Rule 3:

Before you start to write - make sure that your mission fits the mission of the funding agency!



Rule 4:

Be optimistic there are many, many funding agencies... DFG NSF

BMBF NASA

DLR DOE

ESF Humboldt

EU ESA

Rule 5:

Find others who successfully applied to this agency. Study a sample proposal!

Scaling properties of dynamo models and planetary dynamos.

Proposal to the Deutsche Forschungsgemeinschaft

1. General Information

Proposal in the priority programme

Geomagnetic variations: spatio-temporal structure, processes and effects on system Earth

Continuation of project Ch77/11-2

1.1 Applicant

Ulrich Christensen, Prof. Dr.

Director at the Max-Planck Institute for Aeronomy

Date of birth: 06.05.54, German citizen

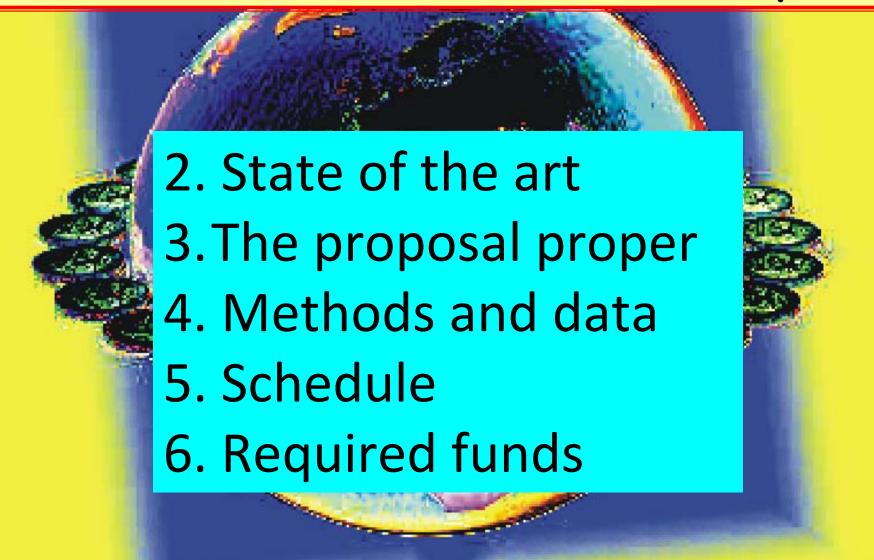
Max-Planck-Institute for Aeronomy

Max-Planck-Strasse 2, 37191 Katlenburg-Lindau

Tel: 05556-979-542, Fax: 05556-979-219, Email: christensen@linmpi.mpg.de Home address: Lange Strasse 92, 37176 Nörten-Hardenberg, Tel: 05503-808809

- 1.2 Title Scaling properties of dynamo models and planetary dynamos.
- 1.3 Keyword: dynamo simulation
- 1.4 Research fields: geophysics, geomagnetism, planetary physics
- 1.5 Planned research period: Two years.
- 1.6 Period covered by this proposal: support is requested for two years.
- 1.7 Start of funding period: 01.04.2003





Rule 6:

Funding agency people are only partly administrators—they have scientific experience, contact them with your questions!



Rule 7:

Think about external and internal deadlines!



Rule 8:

The display of the proposal should be attractive. Avoid spelling errors!

No handwritten proposals, but avoid overdoing

Rule 9:

The peer-reviewers are not paid! And often are from different fields.



Rule 10:

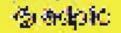
The title of your proposal should be sexy!

But do not prostitute yourself!

Study of the interaction of stellar winds with magnetized objects surrounding stars at habitable distances

or

Magnetospheres of Extra-Solar Planets



Rule 11:

Follow strictly the rules of the funding agency for the title page etc.



Rule 12:

The abstract is important. It serves as a first, sometimes also final information about the proposal

Sample abstract:

The proposed study aims at collecting statistical information about successful proposals. Details are found in the proposal proper.

Rule 13:

Proposal writting is a very ritualized process.

Scientific hypothesis

Specific aims

Current state of knowledge

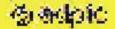
Experience of your team

Your pilot studies

Methods and tools to attack the problem

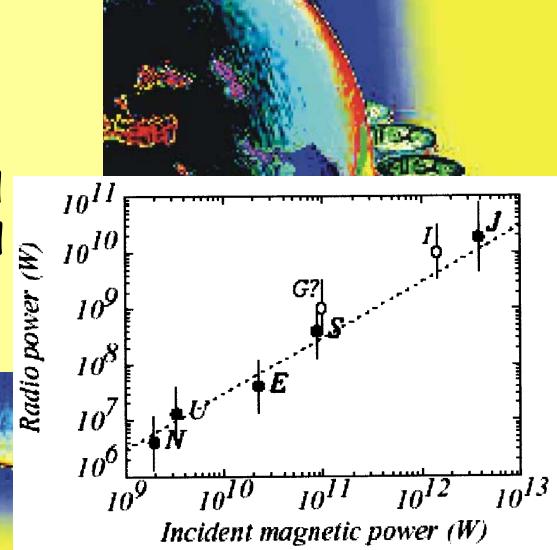
Timetable

Resource level



Rule 14:

Your scientific hypothesis should be testable! And it should be significant.



Rule 15:

Specific aims are important! You cannot do everything at the same time.

Extra-solar magnetospheres:

Find scaling laws for magnetospheres

Find scaling laws for planetary magnetic field

Apply laws found to known ESPs

Find scaling laws for radiation



Rule 16:

Current state of knowledge section is very important and critical.

What is known?

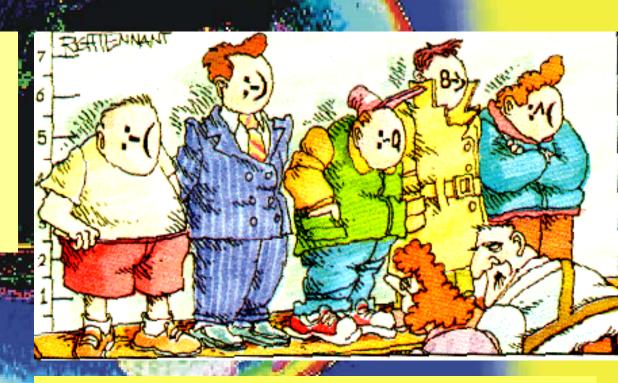
What is not known?

Why is your hypothesis important?

Give a fair review of previous and competing work. It is a peer-review process!

Rule 17:

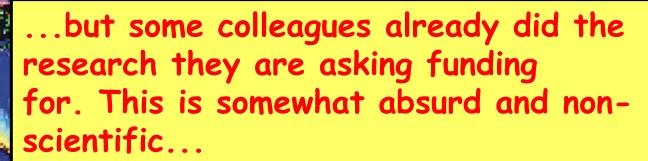
Experience of your team



Present your highly skilled team !!!!

Rule 18:

Pilot study results are very important.



Rule 19:

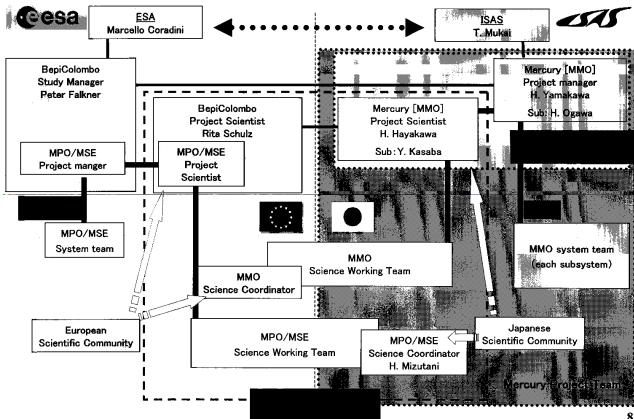
Methods and tools to be used should be described in some detail



Rule 20:

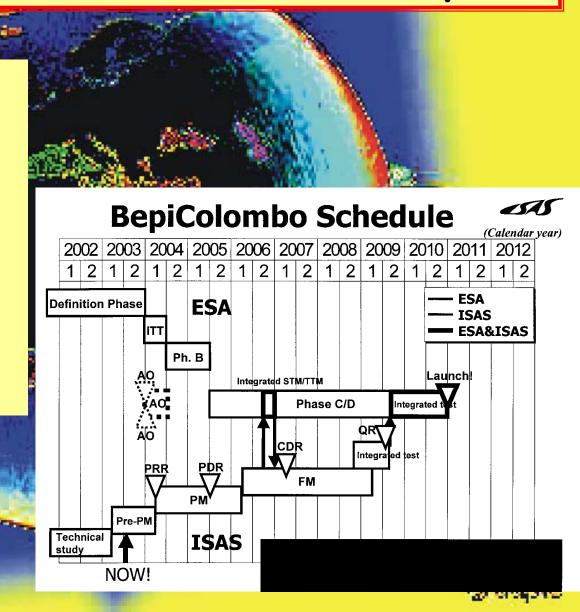
Prove your management qualities and provide an organigramme

BepiColombo Project organization plan



Rule 21:

Provide them with a time table and schedule!



Rule 22:

Ressource level: be as detailed as possible! Add a bit for the referees to cancel.



Example: Resource Level

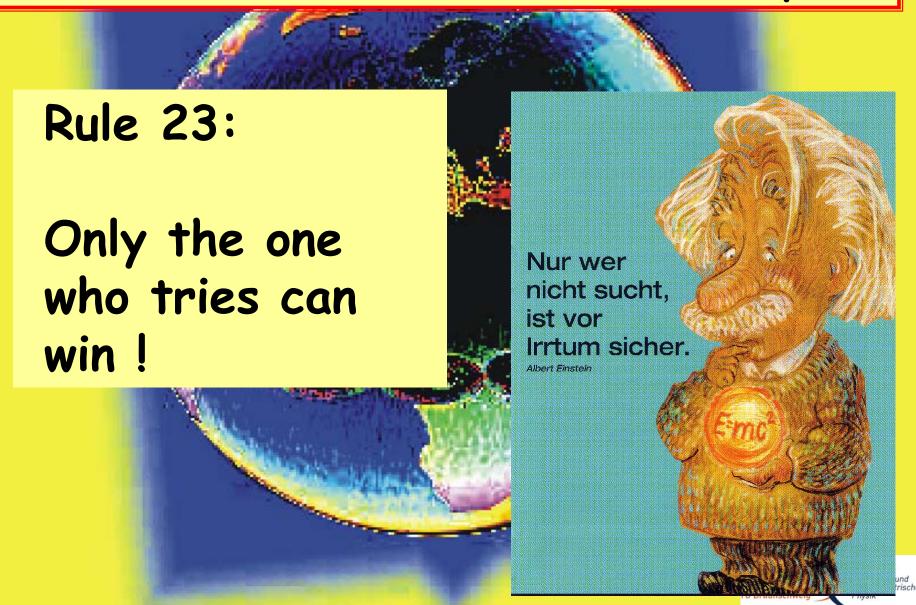
Personal: 50.000,-/year

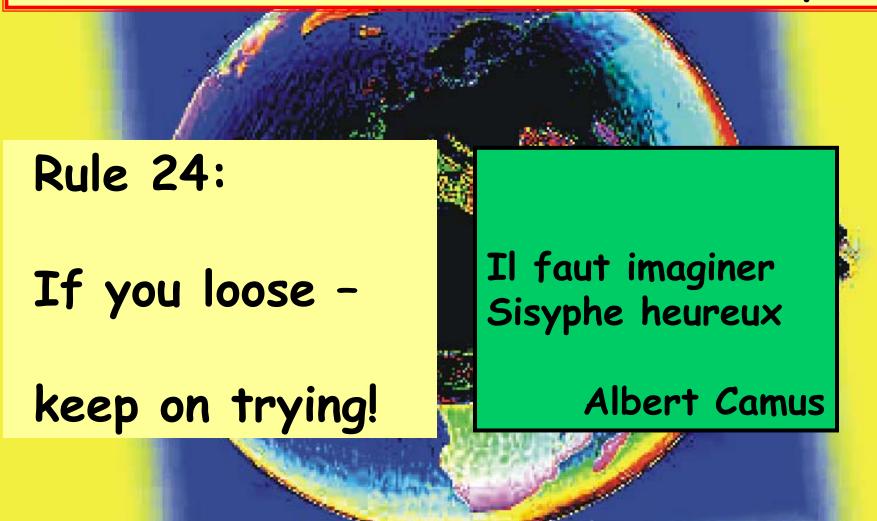
Travel: 3.000, - /year

Consumables: 5.000, - /year

Investments: 15.000, - /year

Publication: 1.000, - /year







Rule 25: If you win, have a party and invite Dieter and me!

