International Meteor Conference

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Using SPADE for radio meteor observations

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Solar-Terrestrial **Centre of Excellence**



Solar Influences Data analysis Center



Royal Observatory of Belgium



SPADE – The Project

A new radio-telescope for low-frequencies



Wavelength (meters)





SPADE – The Project

A new radio-telescope for low-frequencies



Wavelength (meters)



































Location





Humain Radio–Astronomy Station

Humain Radio–Astronomy Station



Humain Radio-Astronomy Station



Radio Solar Spectrographs (ROB)

Humain Radio-Astronomy Station



Radio Solar Spectrographs (ROB)

Array Configuration



The layout of the array must provide a symmetric beam with low sidelobe levels

Array Configuration



The layout of the array must provide a symmetric beam with low sidelobe levels









Array Field



Array Field



Array Field



Forward-scattering











August 2018



Some Results



We got planes!

Some Results



A LOT of planes...

Some Results



... and even thunderstorms

Some Results



Finally, some meteor echoes

Some Results



Even underdense meteor echoes

Some Results



Some Results



Some Results



Some Results



Some Results



Epsilons.... Present!

Some Results



Do not forget the baby-epsilon!

Some Results



Meteor echoes profiles

First Light (not quite yet)

... but maybe it is the last appointment with the obstetrician!

