IS-GE1
Effelsberg MPIfR Bonn
Installation complete!
March 2007

Wolfgang Reich
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Bonn
IS-GE1 as seen from the 100-m telescope

HBA field

LBA field

21.03.2007
First Light at Effelsberg IS-GE1 20.03.2007

8 dipoles x2 polarizations $\tau=4s$

512 channels $\Delta f=156$ KHz

S. Wijnholds, M. Norden (ASTRON)
Spectra from 8 dipoles

IS-GE1 is located in a valley ➔ fairly low RFI contamination

Green: average 60x1sec spectra
Red: filtered (82% useful data)
## LOFAR angular resolution

<table>
<thead>
<tr>
<th></th>
<th>30 MHz</th>
<th>75 MHz</th>
<th>120 MHz</th>
<th>240 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Exloo 2x3 km</td>
<td>21″</td>
<td>8.3″</td>
<td>5.2″</td>
<td>2.6″</td>
</tr>
<tr>
<td>NL LOFAR ~100 km</td>
<td>25″</td>
<td>10″</td>
<td>6″</td>
<td>3.1″</td>
</tr>
<tr>
<td>CS1 - IS-GE1 ~250 km</td>
<td>10″</td>
<td>4″</td>
<td>2.4″</td>
<td>1.2″</td>
</tr>
</tbody>
</table>
Own fibre connection
Effelsberg ➔ MPIfR Bonn
(>10.2007)
➔ FZ Jülich
(DFN ?)
➔ Groningen
(SurfNet)