



Osservatorio
Astronomico
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INAF
ISTITUTO NAZIONALE
DI ASTROFISICA
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FOR ASTROPHYSICS

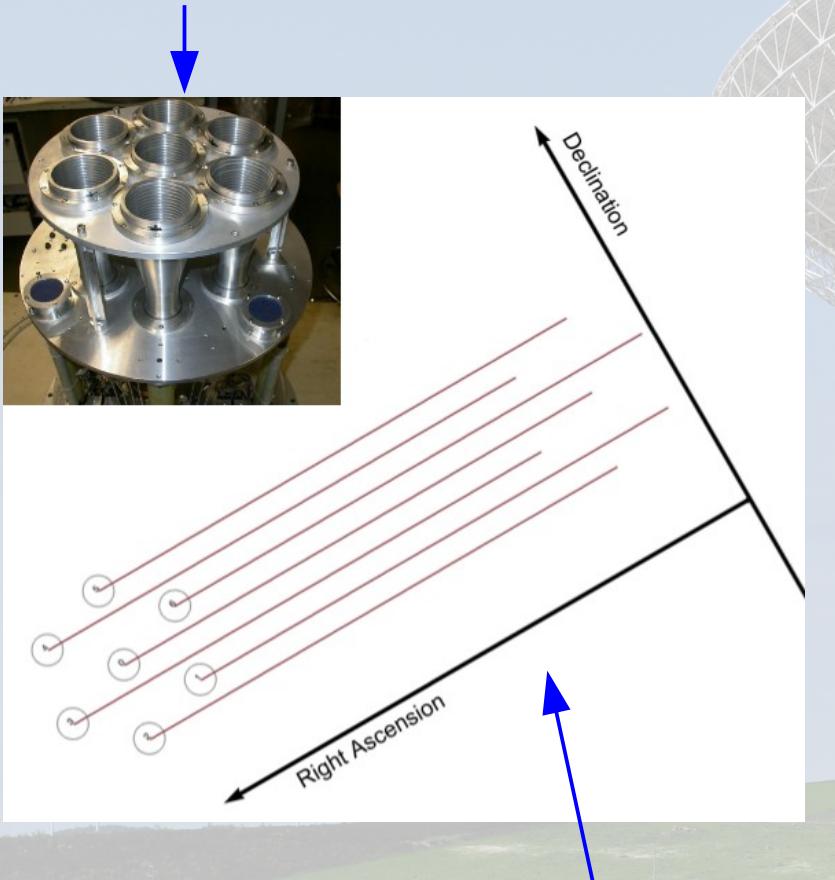
High-resolution spectral imaging of SNR IC443 and W44 at 22 GHz with the Sardinia Radio Telescope

PhD student: **Sara Loru**

Supervisor: **Alberto Pellizzoni**

Observations and Data Analysis

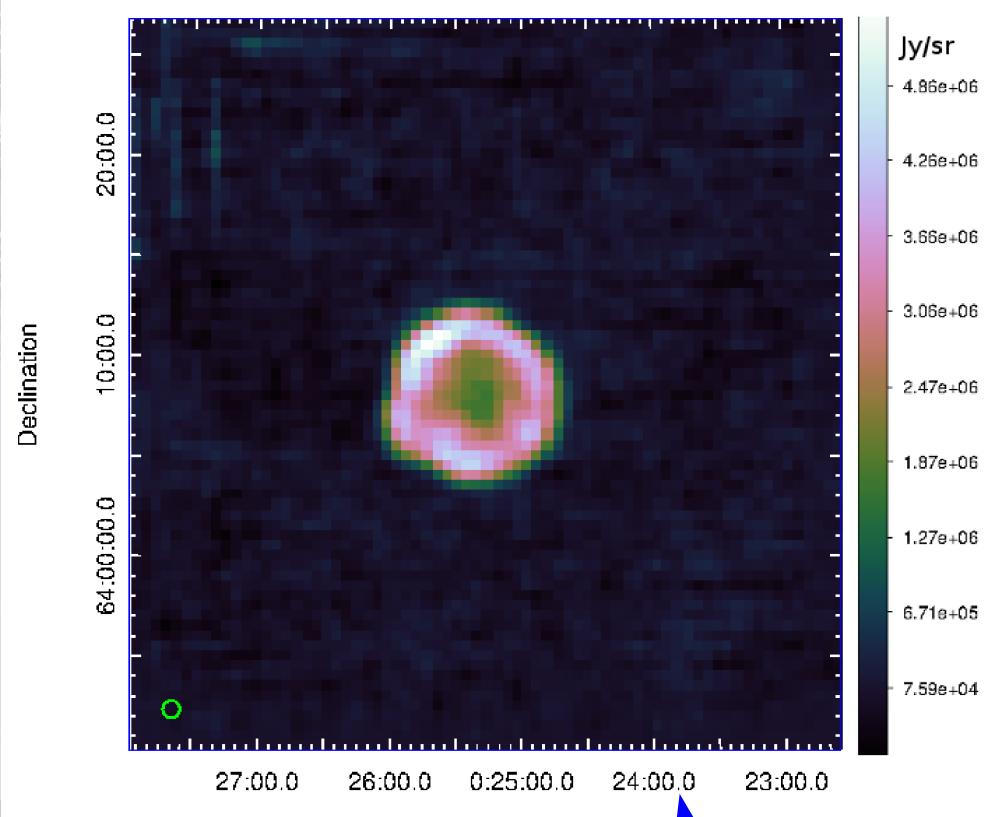
- SRT K-band 7-feed receiver (21.4 GHz)



Best Space Coverage configuration

22/02/17

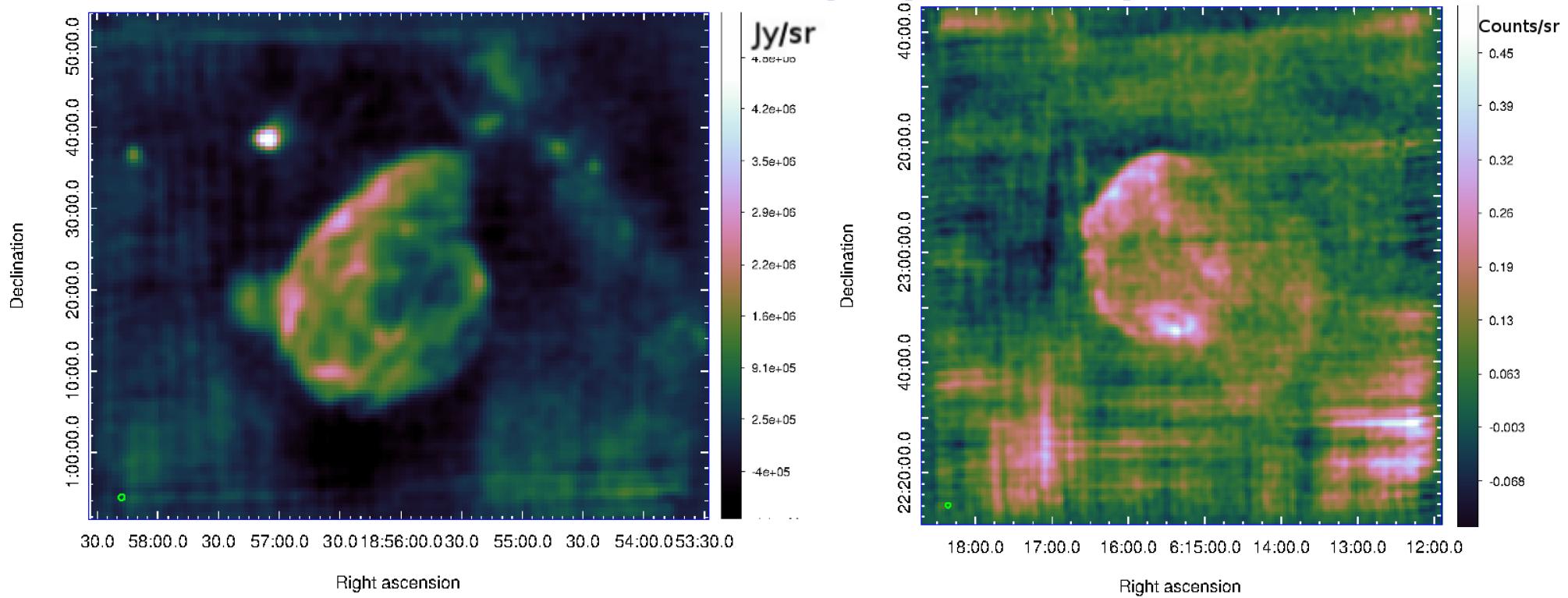
3C10 map



14 scans per beam

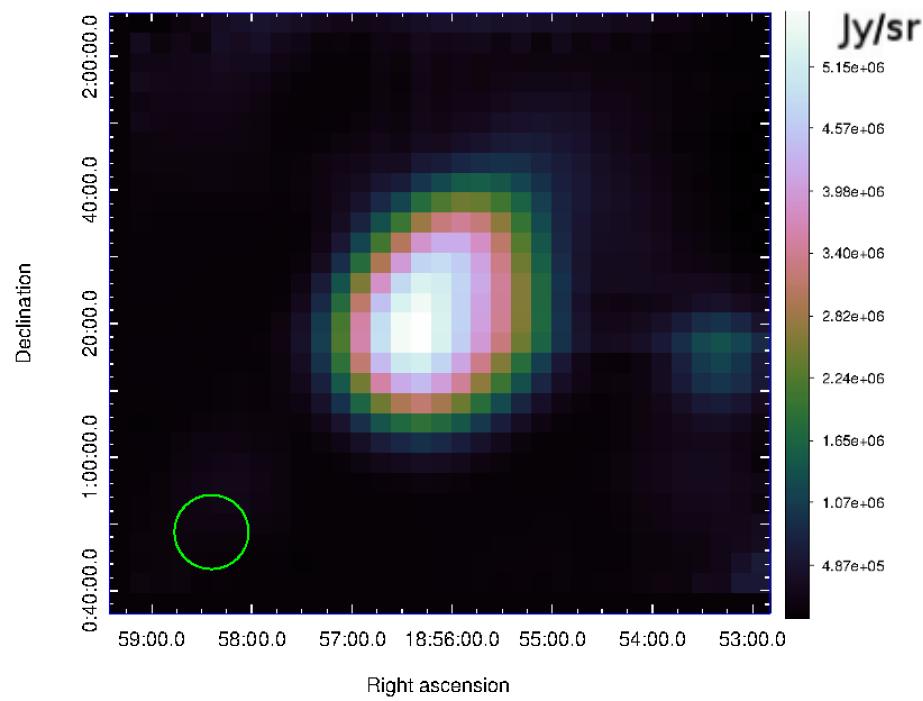
SRT K-band maps of W44 and IC443

K-band maps (21.4 GHz)

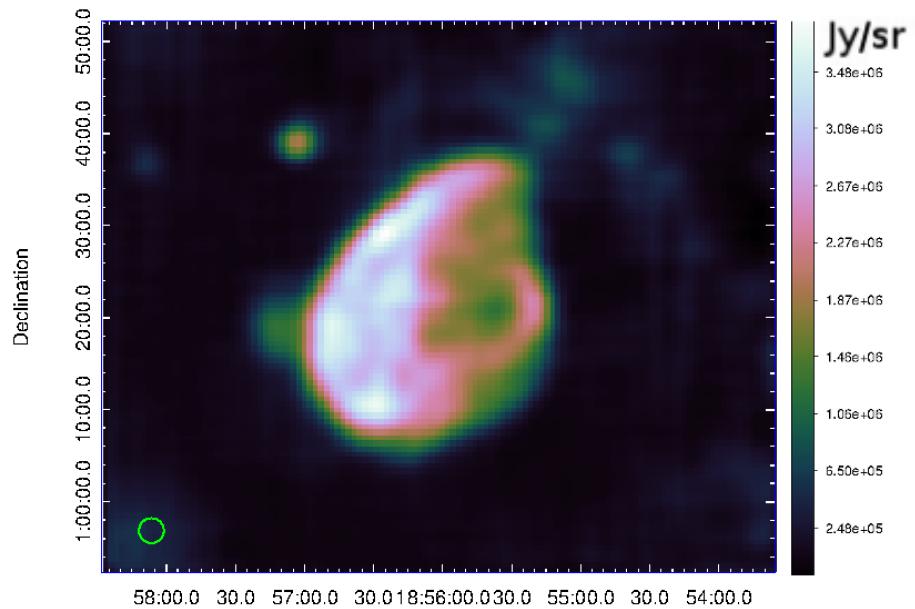


Beam = 0.87'

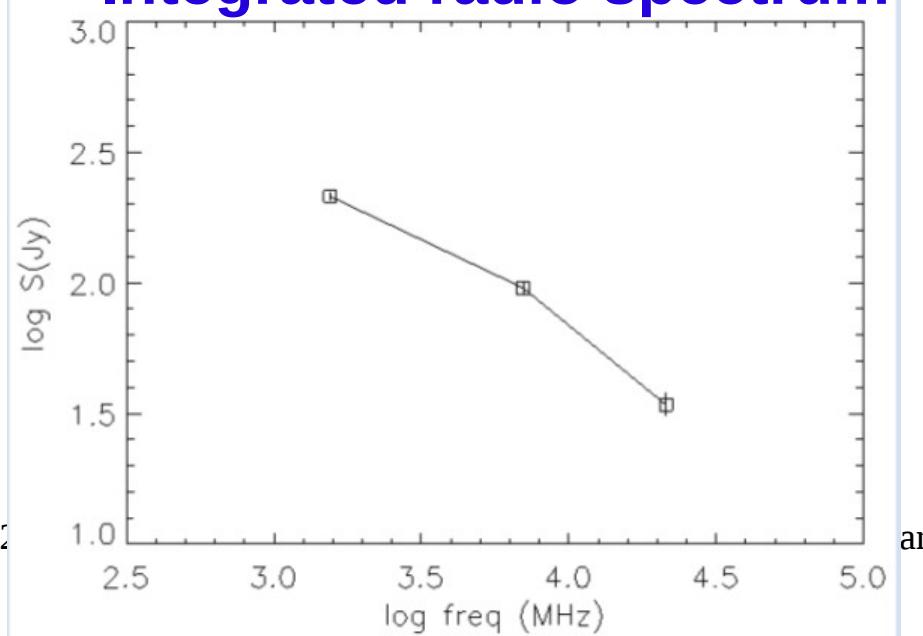
W44 L-band map (1.5 GHz)



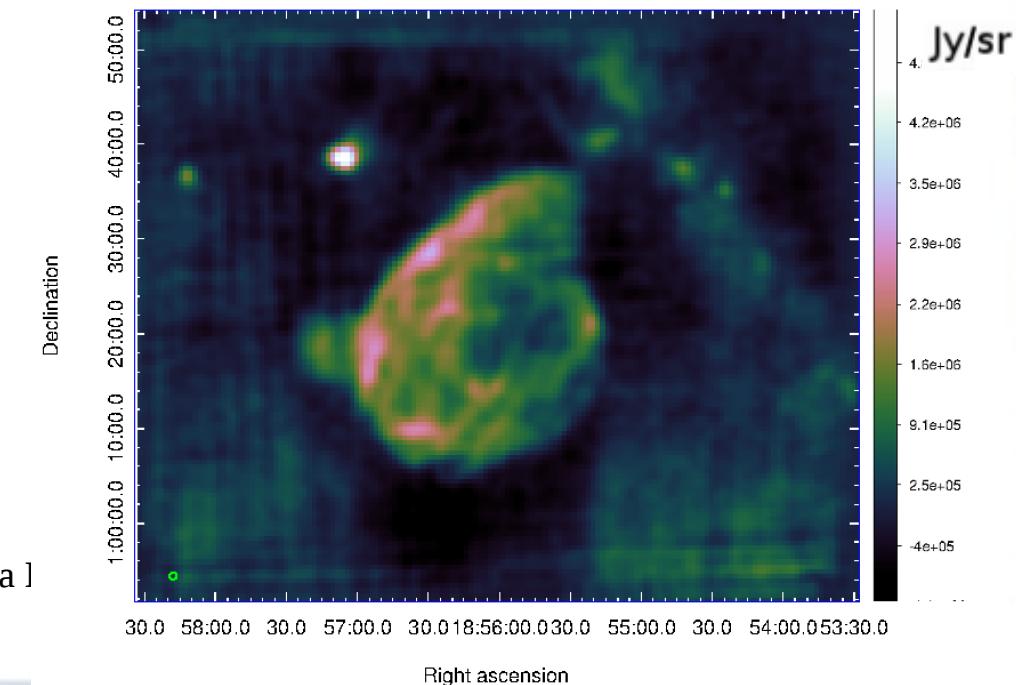
C-band map (7.0 GHz)



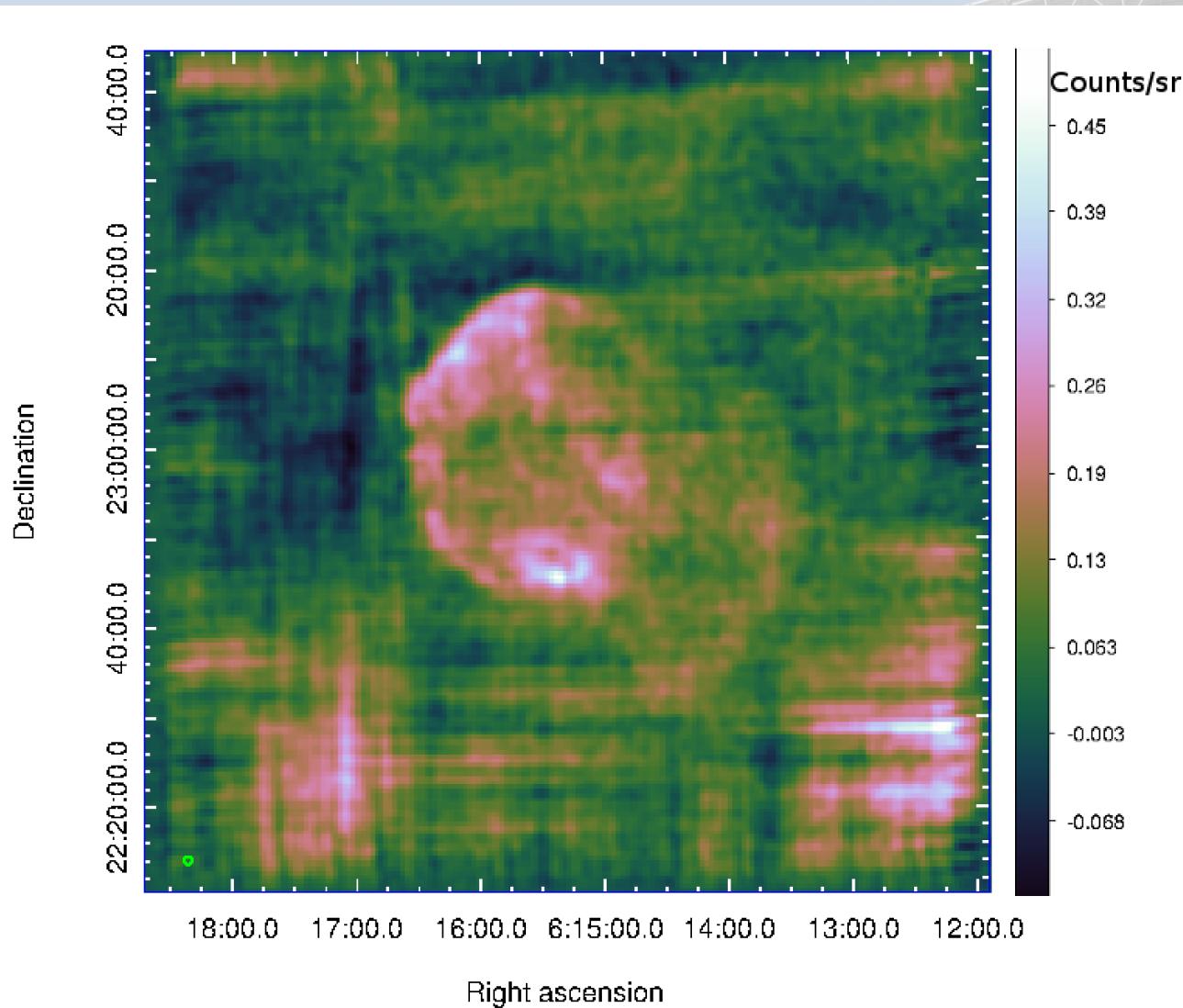
Integrated radio spectrum



K-band map (21.4 GHz)



Outlook for the future



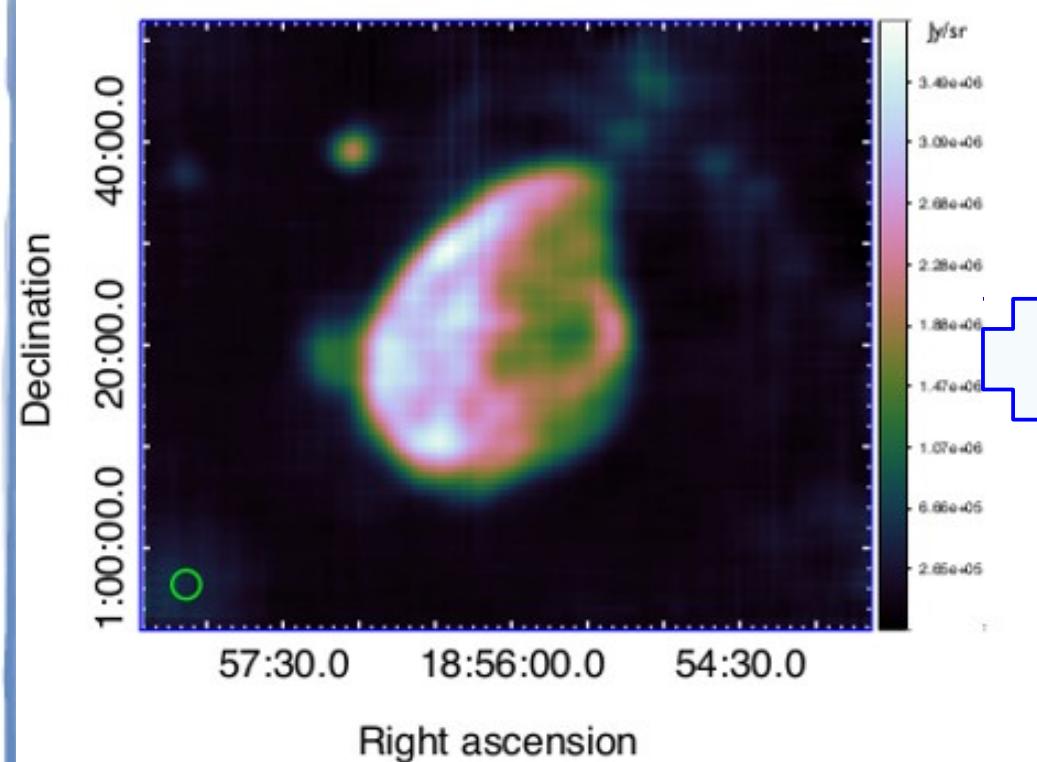
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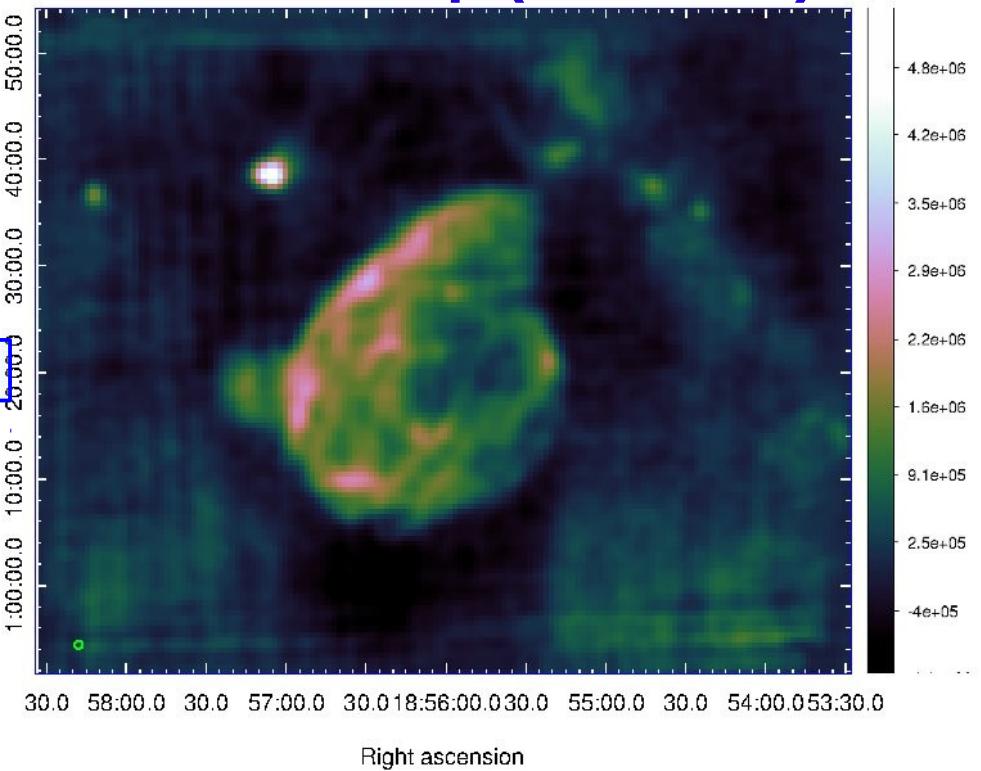
• **SNR IC443**

Outlook for the future: spectral index maps

C-band map (7.0 GHz)



K-band map (21.4 GHz)





Thank you for your attention

22/02/17

Sara Loru