

Magda Todorovic – JBCA Internal Symposium 2012

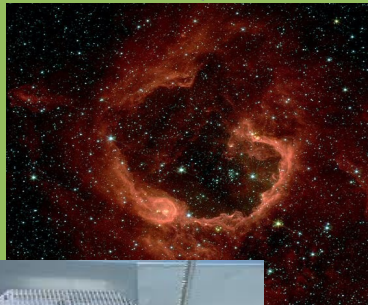


- I work with: Rod Davies, Clive Dickinson and George Bendo.
- I am currently working on:

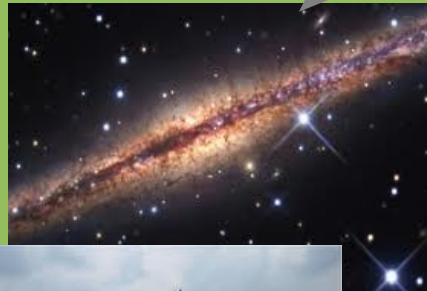
➤ Studying **anomalous microwave emission (AME)** due to rapidly spinning PAHs. AME is one of the foreground emissions of the Galaxy that needs to be characterised and subtracted from the total CMB signal. It can be found in many environments, e.g. star forming regions.

➤ Detection of the **microwave haze** in nearby galaxies. The haze is a newly discovered component of the diffuse Galactic emission, roughly centered on the Galactic centre, extending to $|b| \sim 35^\circ$ $|l| \sim 15^\circ$ and consistent with the *Fermi* gamma-ray haze.

AME in HII regions in the Galaxy.



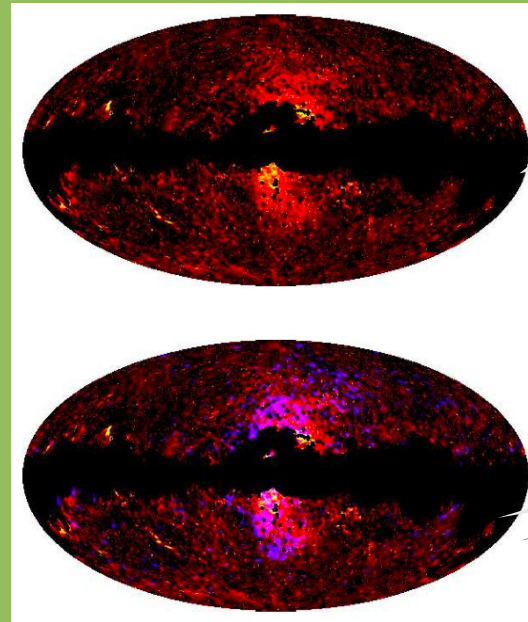
AME in nearby galaxies.



The VSA.



The AMI array.



The WMAP haze.

The WMAP (red) plus *Fermi* haze (purple).

Planck collaboration, 2012; Dobler et al. , 2012.