

Radio Stars: from kHz to THz

Discussions: Anita Richards, Michael Rupen, Mark Reid

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~1 kG fields seem indicated for a wide variety of flaring radio stars,
from Sun to cool stars.

Is this an observational selection effect?

Does it have a physical explanation?

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How do massive stars form (accretion disks or mergers)?

No clear indication in maser maps/motions of binarity

Why are there young stars in the Galactic Center region?

Thought that ISM pressure too high to promote collapse

(Radio unique in that can see through deeply embedded systems.)

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Stellar winds are ubiquitous...do we understand how they are formed?

O-star winds: Are we satisfied with UV momentum transfer either from continuum or lines?

Sun: Is it simply from heating the corona?
If so, how does that happen?

Red giants: Does IR momentum transfer to dust explain this?
How far do shocks propagate in red giant CSEs?
How does material get high/cool enough to form dust?
How reliable are mass loss rates...does clumping explain discrepancies?

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What telescopes/observations are needed to detect CMEs from Sun-like and low-mass stars?

(fighting at least a 10^{-11} $1/d^2$ loss relative to Sun)

Can we detect exo-Jupiters at long wavelengths?

Could radio observations predict Solar CMEs?

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Why are PN bipolar and AGBs quasi-spherical?

If PN shape stems from a binary system, where are all the (presumably spherical) single-star PNe?

If from magnetic fields in solitary stars, where do the fields come from?

Is MWC 349 a PPN?

How do Post-AGB stars expel shells?

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