Hendrik Linz
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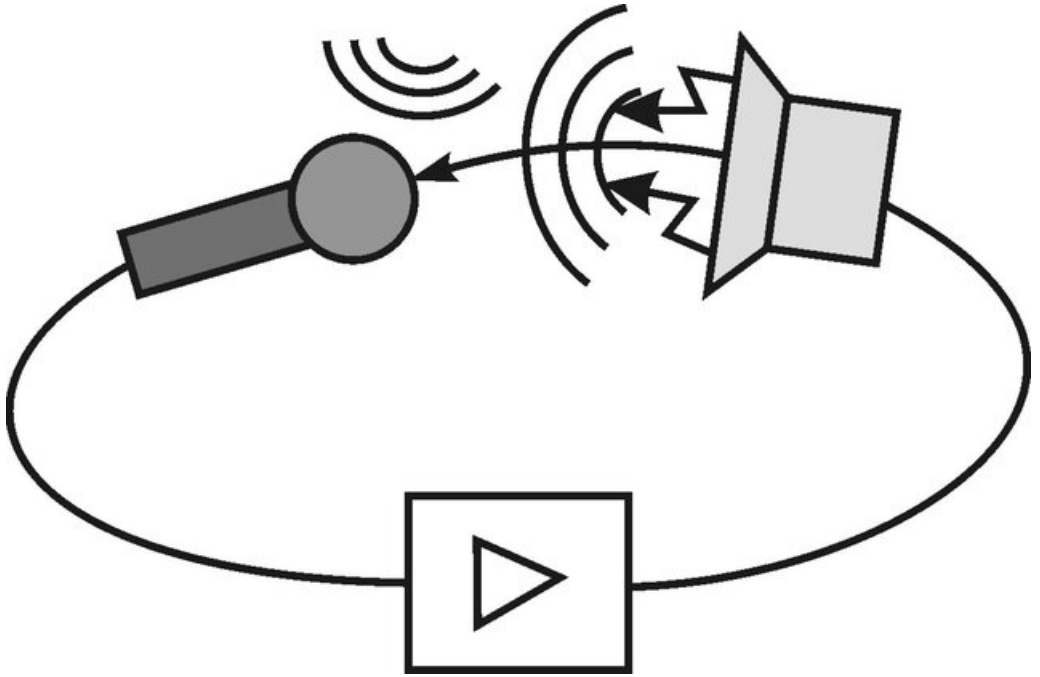
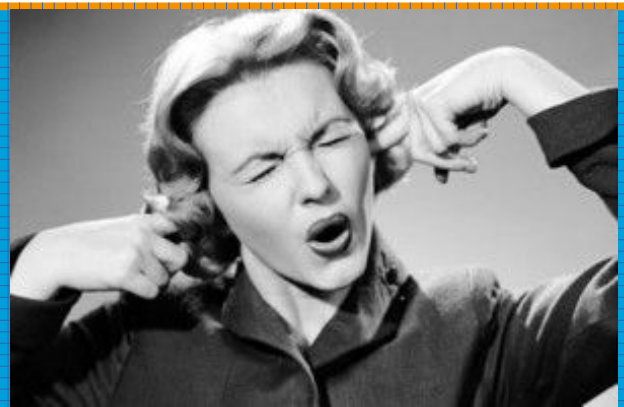


Discussion on

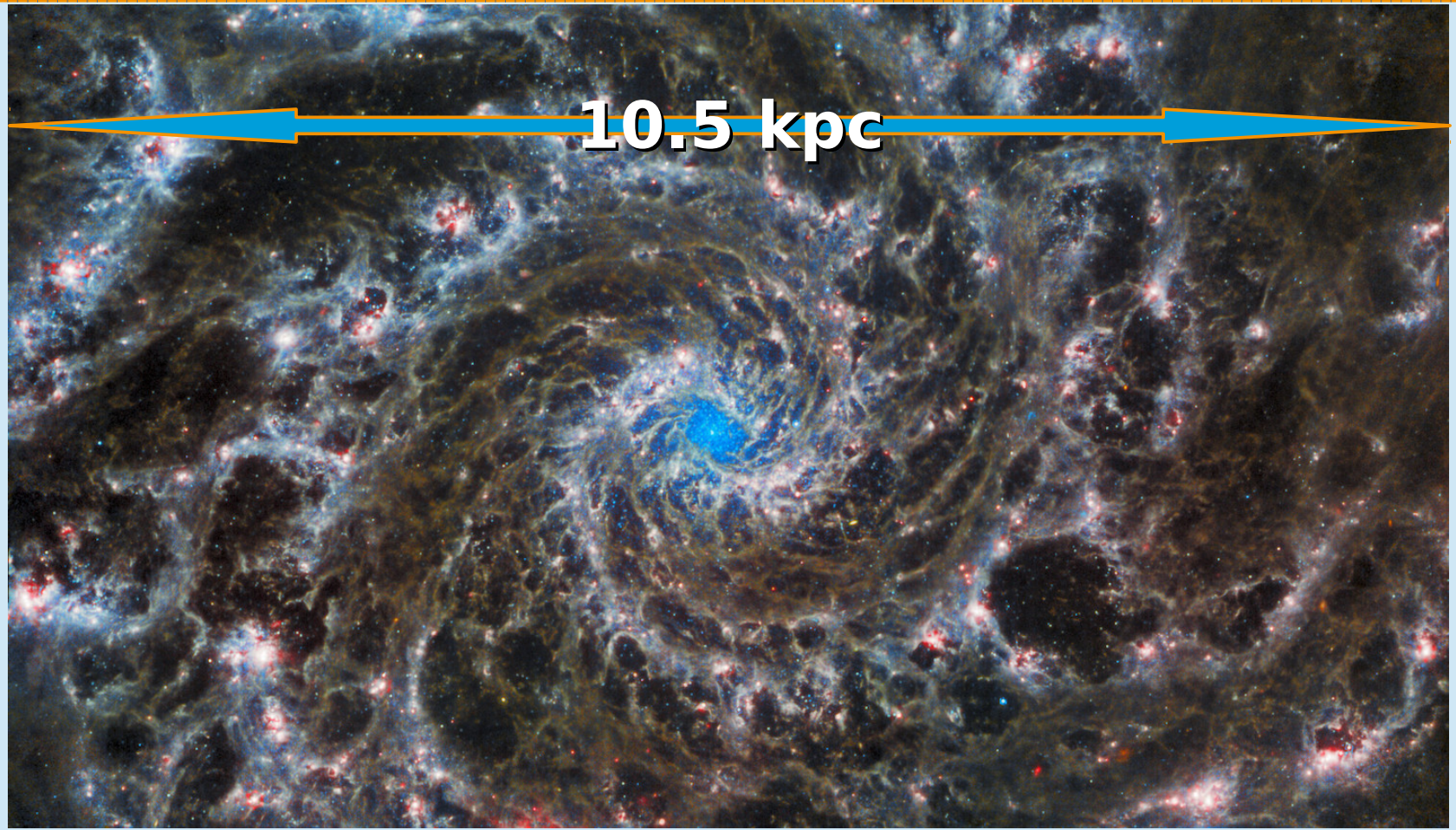
FEEDBACK



May 16, 2024

Feedback as a global player ...

M 74 with JWST



ESA/Webb, NASA & CSA, J. Lee and the PHANGS-JWST Team; Acknowledgement: J. Schmidt

Participants' feedback before the conference ...

Feedback	
Fe01	How do the radiation, heat transfer, winds, (turbulent) flows, cosmic rays, and MHD/plasma waves produced during the SF process **affect** the **SF in the region**?
Fe02	In **low-mass** SF regions without a strong radiation field and SN shocks, which feedback process dominates (e.g., jets, outflows, stellar winds, turbulence, cosmic rays, etc.)?
Fe03 Co13	Cores near a forming cluster: will the radiation and winds **trigger** SF or **prevent** it?
Fe04 MC07	What effect has the feedback within one MC on **another MC** (e.g. during its destruction)?
Fe05 Fi16	Is the **feedback** of a massive star/cluster able to **form filamentary** structures in a nearby dense region?
Fe06	Can the numerous **B stars** compete with their wind feedback against the strong feedback of a few SNs?

How about more local feedback?

Feedback in this conference: star formation affects other entities
or star formation events (spatially/temporally)

Does the influence of the star formation process on itself and its own feeding structures also count as feedback?

→ massive photoionisation from forming high-mass star stops accretion on the (proto)star? **Related poster by Rolf Kuiper P13**

→ Do locally produced cosmic rays from accretion an/or jets affect the local (envelope) ionisation? **Related poster by Kamber Schwarz P25**

→ Accretion bursts: changing the (thermal) structure of the inner circumstellar environment, influence on chemistry/mineralogy? **Related poster by Hendrik Linz P17**

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Feedback: Good cop / bad cop?

Feedback can have constructive or destructive effects on neighbouring regions and future star formation generations

→ stopping new star formation vs triggering new star formation (e.g. RDI)

→ Joao Alves: feedback from massive stars to distill filaments out of the ISM

→ Rachel Friesen: (outflow/jet) feedback from low-mass stars may shift future SF in the Serpens S cluster to ~2 x higher masses