

# Stellar Lifecycles Working Group

Our WG encompasses all of stellar astronomy++.

This gives us great potential to bring in the non-*X*-ray astronomy community and has many synergies with ALMA, JWST, etc.

We want to be smart about how to structure our our group to best leverage this possibility.

We envision many subgroups within our WG given our purview and that our members will participate in several subgroups (much like the larger STDT).

27 applicants to call; we have brainstormed another ~25 to invite.

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- Stellar Birth (star formation, pre-MS stars)
- Stellar Life (high-mass and low-mass evolution, binary evolution)
- Stellar Old Age and Death (post-MS evolution, supernovae)
- Supernova Remnants
- X-ray Binary Populations (as they inform stellar and binary evolution)
- Stellar Populations as tracers of Galactic structure
- Exoplanets

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As stated in the working group charter, one of our main tasks is to “identify key science questions within their broad scientific area that could be addressed by X-ray Surveyor...”

We have taken as our first task to leave out the XRS portion of this, and identify key science questions (in part by informal polling of our other-wavelength colleagues) and then brainstorm ways that XRS could address them in a meaningful way.