

# TVS-SN WG

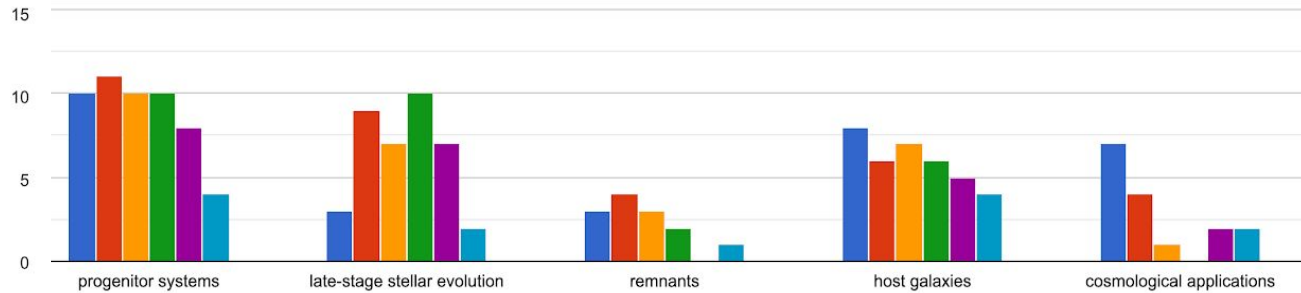
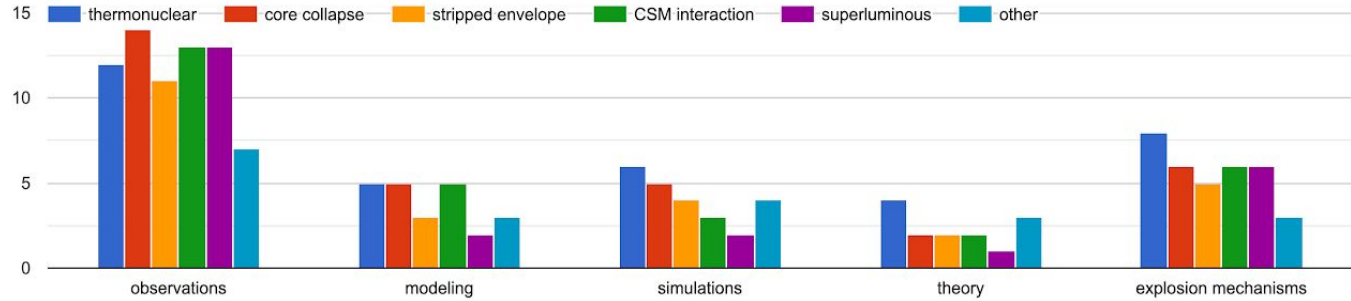
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Melissa Graham - University of Washington ([mlg3k@uw.edu](mailto:mlg3k@uw.edu))

Link for the minutes: [https://docs.google.com/document/d/1r0FIJaomBz5DdxB2ukRX4lnX4q216DcZm\\_x-i-vbgYU/edit?usp=sharing](https://docs.google.com/document/d/1r0FIJaomBz5DdxB2ukRX4lnX4q216DcZm_x-i-vbgYU/edit?usp=sharing)

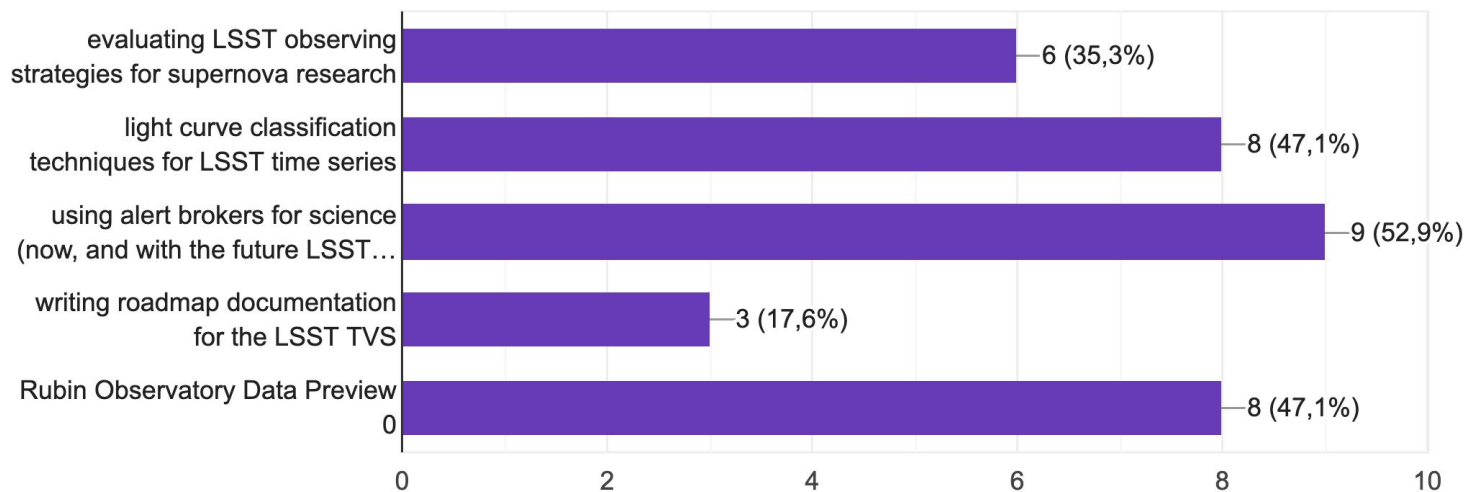


1 - Regarding your general supernova research interests (i.e., not just your future LSST-related research), please check all that apply:



3 - Are you \*currently participating in\* any of the following TVS initiatives which are currently active? Check all that apply.

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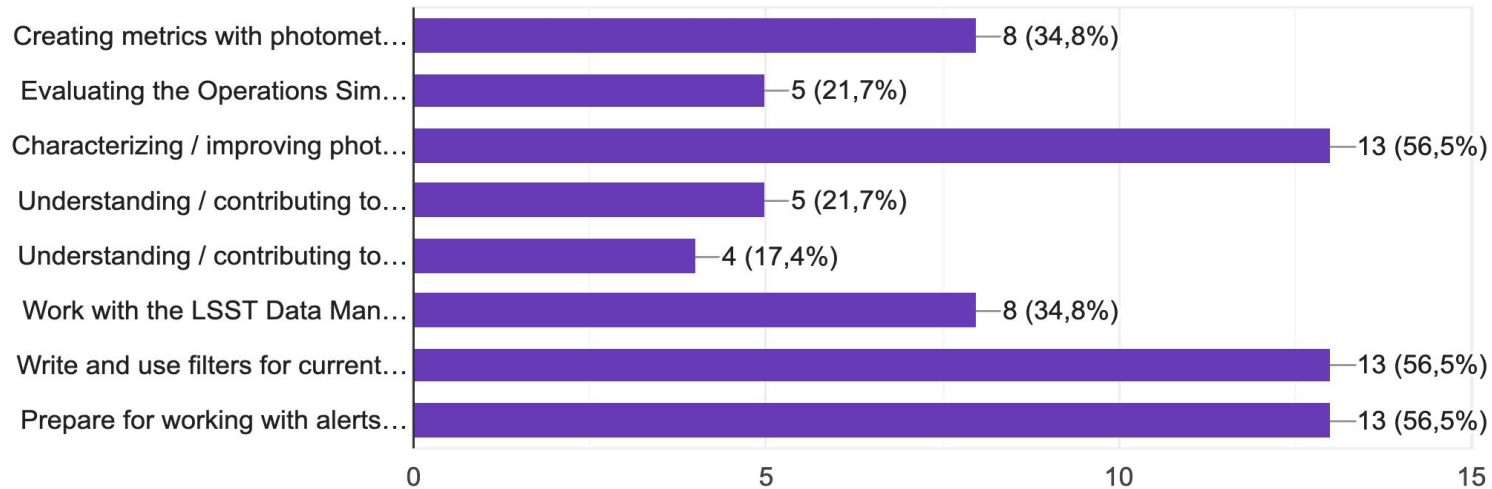


## Potential projects:

- LSST Survey Strategy / Cadence Optimization.
  - ◆ Creating metrics with photometric classification algorithms.
  - ◆ Evaluating the Operations Simulations v.2.0 expected late 2021.
- Photometric classification algorithms (participation in PLAsTiCC 2).
  - ◆ Characterizing / improving photometric classifiers for SN types.
  - ◆ Understanding / contributing to the LSST Science Pipelines plans for timeseries features for DIAObjects (ls.st/DMTN-118).
- SN host galaxy association algorithms.
  - ◆ Understanding / contributing to the LSST Science Pipelines plans for host association (ls.st/DMTN-151), as well as broker cross-matching algorithms.
- SN detection efficiencies and rates.
  - ◆ Work with the LSST Data Management team to ensure that the SN-related science goals can be met.
  - ◆ E.g., DM work summarized in <https://jira.lsstcorp.org/browse/DM-19308>
- Alert brokers and filters in the era of multi-survey alerts.
  - ◆ Write and use filters for current brokers and alerts (e.g., ZTF, DECam).
  - ◆ Prepare for working with alerts based on commissioning data and during the first year of Rubin operations (ls.st/DMTN-107).

5 - Please select all of the following potential TVS SN WG projects you might be interested in working on: (check all-that-apply response)

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# TVS-DESC synergy

- Workshops: virtual (or in person) moments to work on specific tasks
- Talks and seminars: To propose during the TVS or DESC meetings to let the community know about the ongoing projects to promote collaboration
- Ideas lab(s): virtual (or in person) moments to discuss on the future projects
- Dedicated task(s)-force



- Update the [TVS SN WG website](#)

LSST TVS SC Subgroup: Supernovae

Topic: LSST Supernovae

The LSST data set will contain millions of supernovae.  
We're preparing to do science with them.

Membership

Join the TVS Science Collaboration and this Supernovae subgroup via the [main TVS Webpage](#). Note that your application should include your science interests and proposed contributions to the current TVS-Supernovae activities described below. All members are expected to read and abide by the TVS [Code of Conduct](#), the TVS [Charter](#), and the TVS [Publication Policy](#). Those documents describe the privileges and responsibilities of TVS membership. Members may sign the Code of Conduct and Charter using [this web form](#). The Supernovae subgroup contact and lists of currently active members can be found at the bottom of this page. We look forward to having you join us!

- Review the TVS Roadmap.

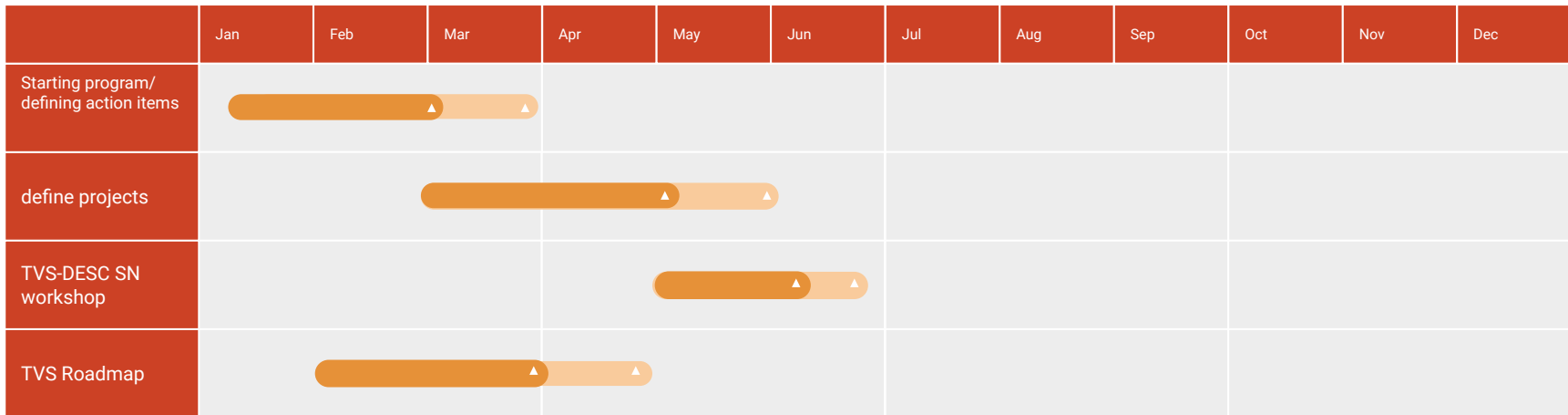
**Rubin Observatory LSST  
Transients and Variable  
Stars Roadmap**

Draft in Progress

The LSST TVS Science Collaboration

◆ Characterizing / improving photometric classifiers for SN types	
◆ Write and use filters for current brokers and alerts (e.g., ZTF, DECam).	Melissa (DECam DDF); Luca
◆ Prepare for working with alerts based on commissioning data and during the first year of Rubin operations (ls.st/DMTN-107).	Luca
◆ Review TVS roadmap and suggest changes.	Fabio, Anais Möller
◆ Review TVS website and suggest changes.	Fabio
◆ Attend a DESC-TD meeting and summarize.	Fabio, Luca





## PLANNED MEETINGS (every last wednesday of the month):

- **February 24th** : Characterizing / improving photometric classifiers for SN types
- **March 30th**: Write and use filters for current brokers and alerts (e.g., ZTF, DECam). / Prepare for working with alerts based on commissioning data and during the first year of Rubin operations (Is.st/DMTN-107).
- **April 27th**:
- **May 25th**
- **June 29th**
- **July 27th**
- **August 30th**
- **September 28th**
- **October 26th**
- **November 29th**