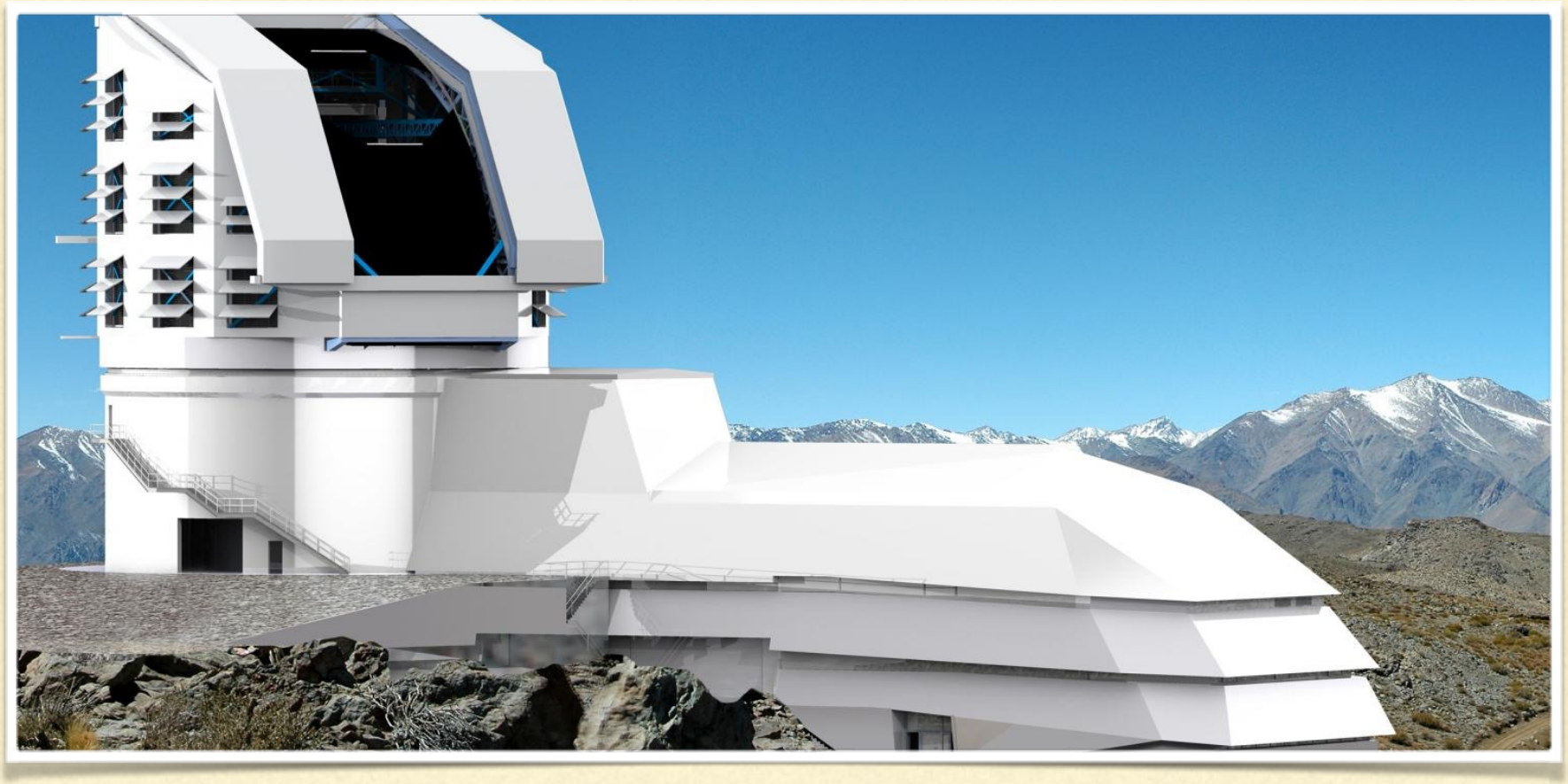
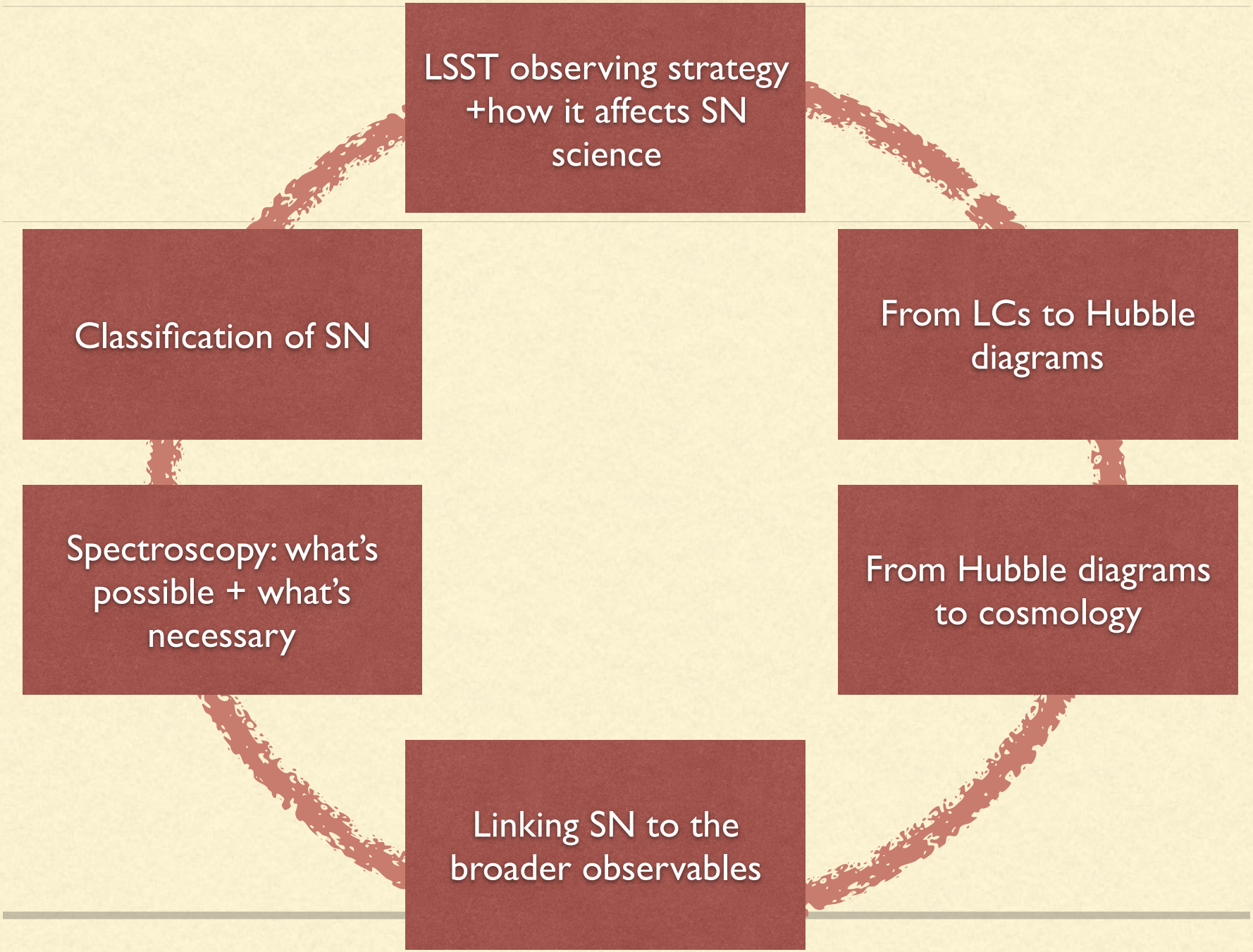
LSST DESC SNWG: an introduction

Renée Hložek (Toronto)
Saurabh Jha (Rutgers)



LSST SN GOALS

- Thanks to Lluís, Kara, Michael for organising!


LSST observing strategy +how it affects SN science
From LCs to Hubble diagrams
From Hubble diagrams to cosmology
Linking SN to the broader observables
Spectroscopy: what's possible + what's necessary
Classification of SN

- We have roadmaps for LSST + deliverables (and people responsible for those tasks)
- My intent/goal is that the SN WG also works together more and combines expertise on different tasks

- We have roadmaps for LSST + deliverables (and people responsible for those tasks)
- My intent/goal is that the SN WG also works together more and combines expertise on different tasks
- One way to do this is through smaller papers on specific topics:
  - Photometric classification (Lochner+ 2016)
  - Cadence + SN science case?
  - Light curve fitting, templates + different approaches?
  - SN + cross correlations?

- Please ask lots of questions, be engaged in the workshop parts of the sessions - let's think of deliverables that we can work on together over the next few months.

Supernovae with LSST

Welcome! LSST will find hundreds of thousands of supernovae in its main survey (WFD), and tens of thousands of supernovae in the planned deep-drilling fields (DDF) **[if we do our job!]**

DESC SN Working Group: supernova cosmology
112 members, monthly telecons
become a member!
LSST-DESC-SUPERNOVAE Mailing List
become a full member!

Transients and Variable Stars SC:
SN subgroup: everything else supernovae
supernova physics, all types, etc.
become a member!

SNWG Important Resources

LSST Science Book (from 2009)

LSST Observing Strategy White Paper

DESC Science Roadmap (SRM) "living" version on github

DESC SN Working Group (w/ SRM dashboard)

SN in the SRM

Supernovae Key Projects: