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# 国台学术报告 NAOC COLLOQUIUM

## 2019 年第 14 次 / No. 14 2019

Time: **Wednesday 2:30 PM, July 24<sup>th</sup>** Location: **A601, NAOC**

### Extragalactic Supernova Remnants in NGC 3344 with SITELLE

**Prof. Daniel Devost**  
**The Canada-France-Hawaii Telescope**

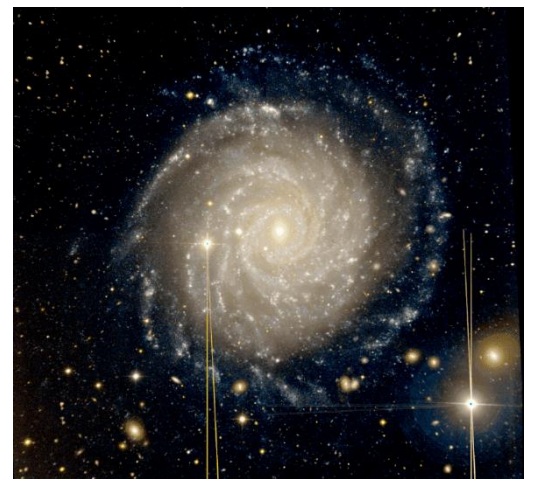


Prof. Daniel Devost is currently the Director of Science Operations at the Canada-France-Hawaii Telescope he has occupied this position since 2008. He started working at CFHT in 2007 as a Canadian Resident Astronomer and was the WIRCam Instrument Scientist. Before Moving to Hawaii, he worked at Cornell University from 2000 to 2007 as an Research Specialist for the Infrared Spectrograph. The instrument is one of three on board the Spitzer Space Telescope that was launched in August 2003. He did his PhD at the Université Laval in Québec City, Canada in collaboration with the Space Telescope Science Institute in Baltimore where he spend three years. His

science interests are the formation and evolution of massive stars and the study of the amount of metals in the Universe.

### Abstract

I will present the first optical detection of Supernova Remnants (SNR) in NGC 3344 using the imaging Fourier Transform Spectrograph SITELLE at the Canada-France-Hawaii Telescope. More than 2000 emission line regions were identified, many of them being H II regions, diffuse ionized gas regions and also, SNR. In total 129 SNR candidates were identified based on four criterion based on emission line ratios. Using shock models, the confirmed SNRs seems to have a metallicity ranging between LMC and twice solar. We looked for correlations between the size of the Confirmed SNRs and their emission lines ratios, their galaxy environment, and their galactocentric distance.



*All are welcome ! Tea and coffee will be served at 2:15 PM.*