

# Data Analysis and Search for Astronomical Transients (AT's)

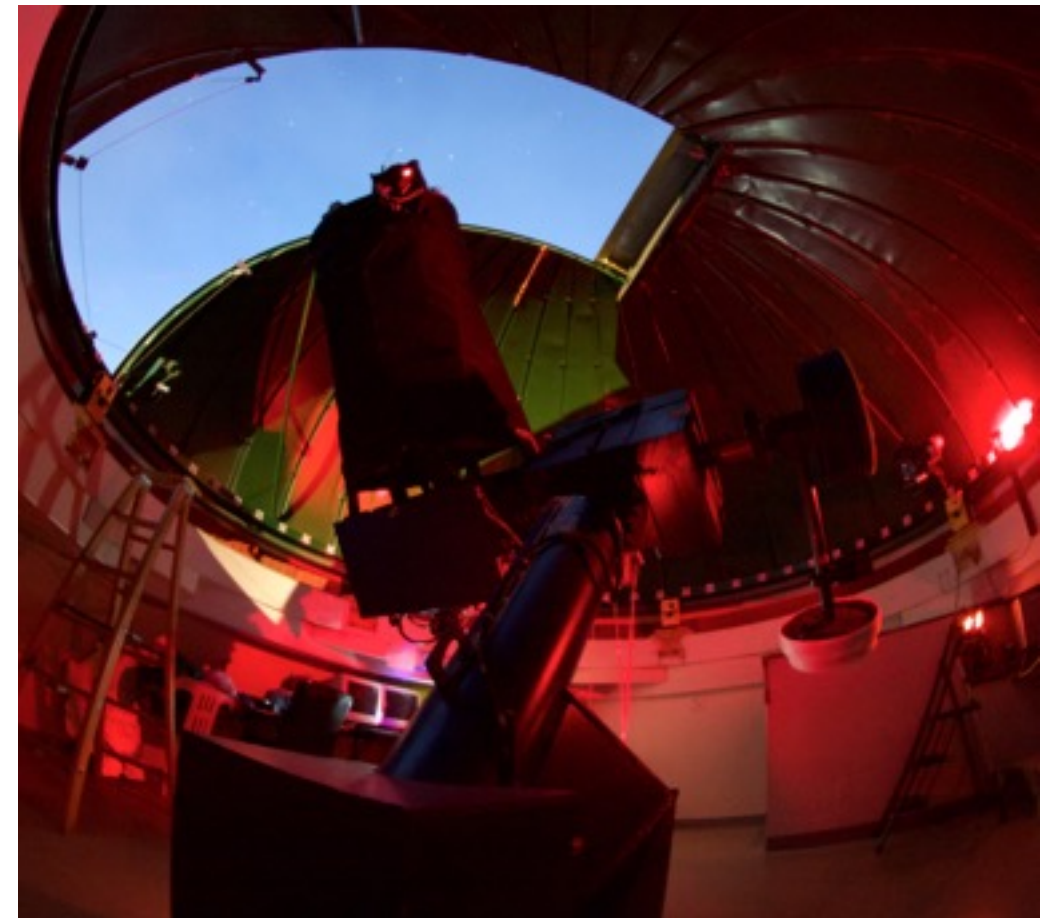
Malhar R. Kendurkar  
Prince George Astronomical Observatory



# Global Supernova Search Team (GSNST)

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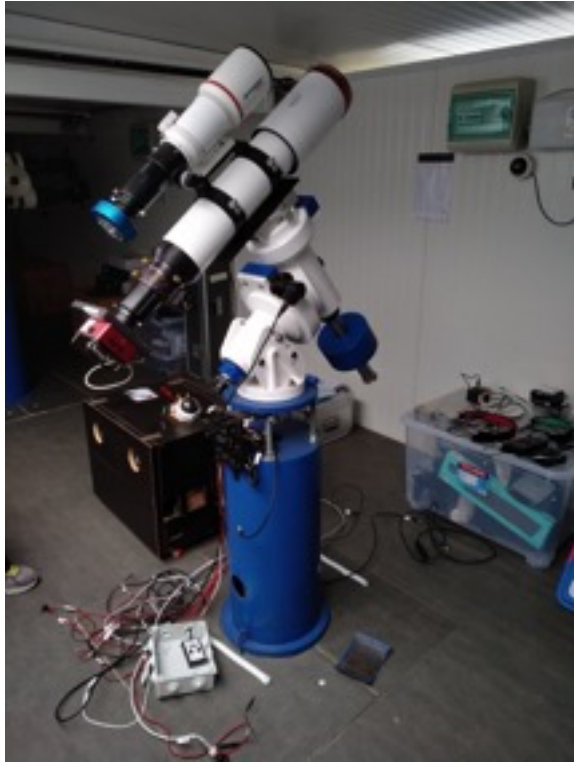
- Wide Wield Survey camera on 0.61-m telescope at Prince George Observatory, Canada as a part of GSNST.
- Northern Sky is observed up to two times each night.
- 17 SNe and 3 Novae discovered since 2018
- Limiting mag: ~21 mag in 60 sec exp.





# Other main GSNST Survey Telescopes

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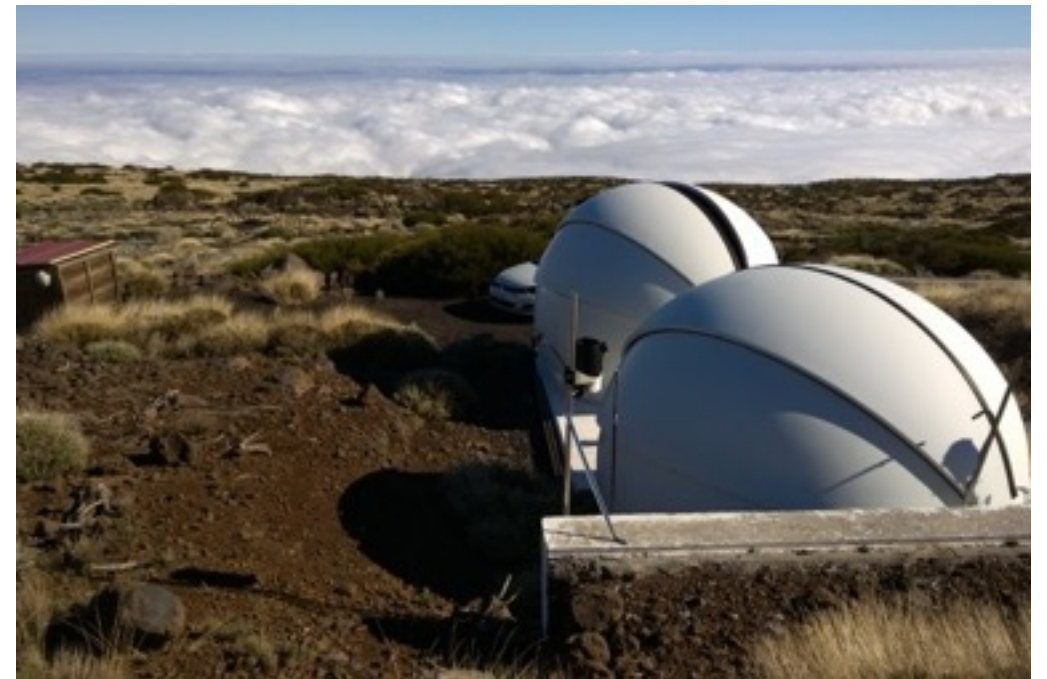
1) Northern Spain



2) Southwest France



3) Slooh's La Dehesa, Chile



4) Slooh Canary Islands, Spain

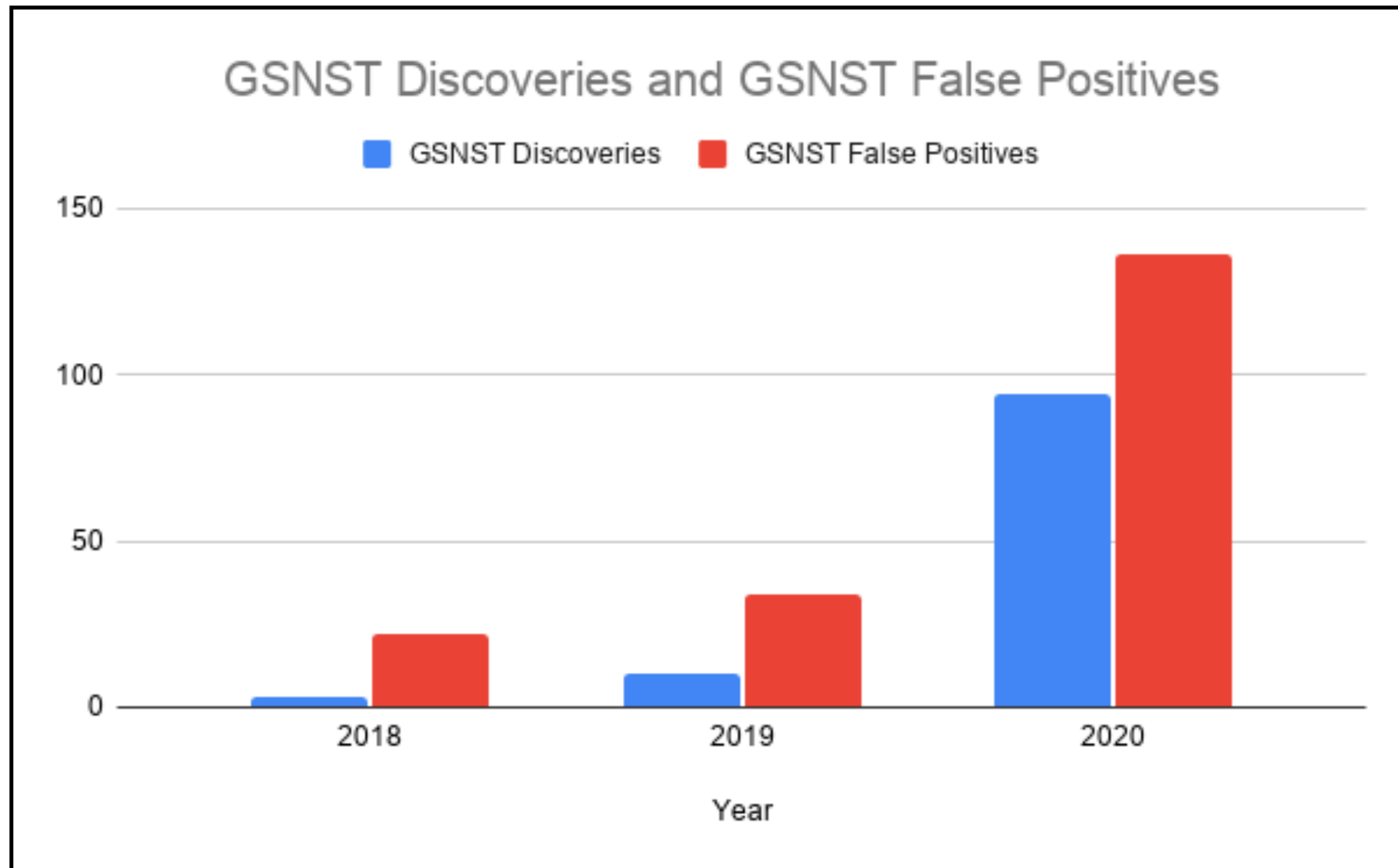
# GSNST Telescopes

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Telescope Specifications				
Location	Aperture	CCD	FOV(in arcmin)	Telescope code
Prince George	24"	SBIG ST-10/ST-09	25x25	PG24
Canary Islands	17"	FLI PL16803	43x43	SS17
La Dehesa	17"	FLI PL16803	43x43	SC17
S.W, France	10",12"	Canon 1200D de-filtered, QHY183C	76.8x51,30.49x20.32	C10,C12

# Discoveries of GSNST from 2018 to 2020

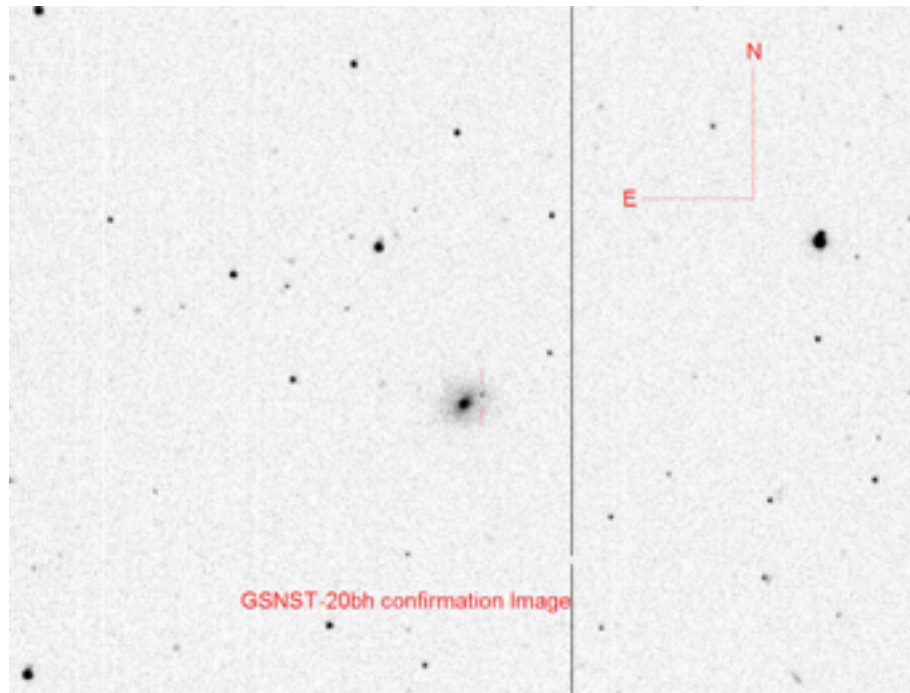
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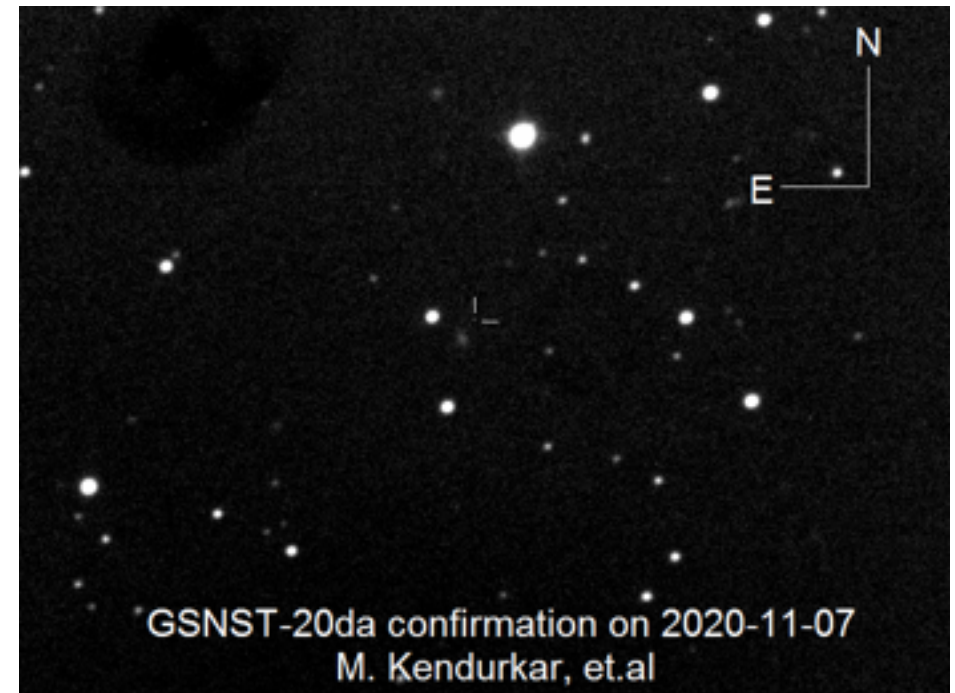


# GSNST Discoveries

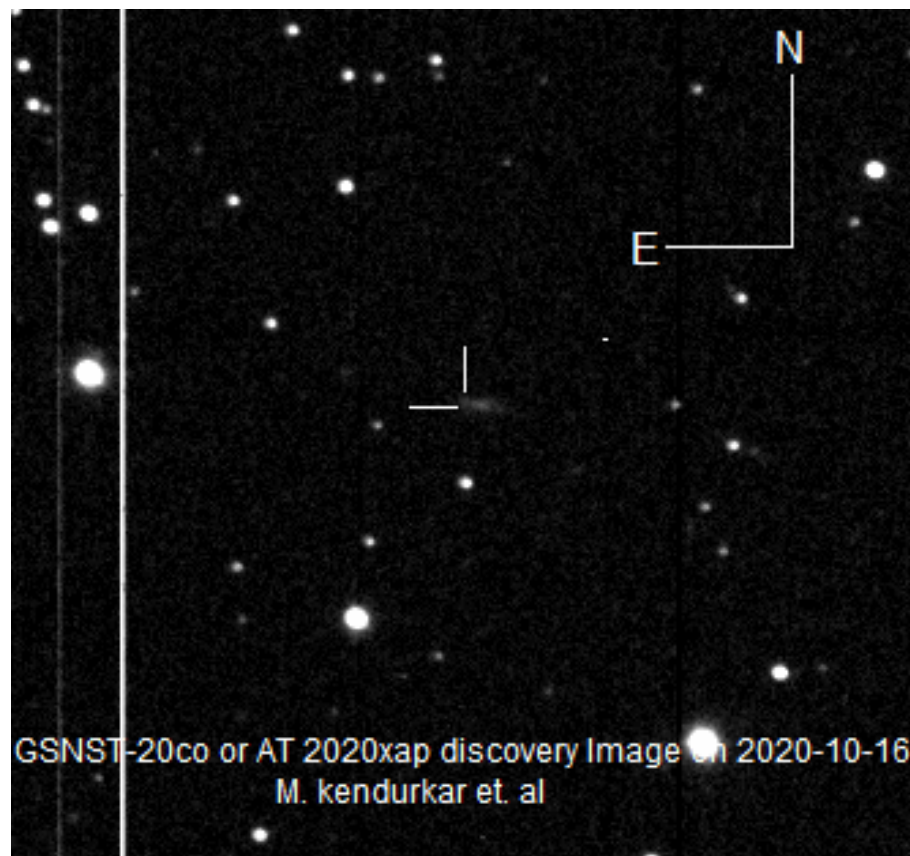
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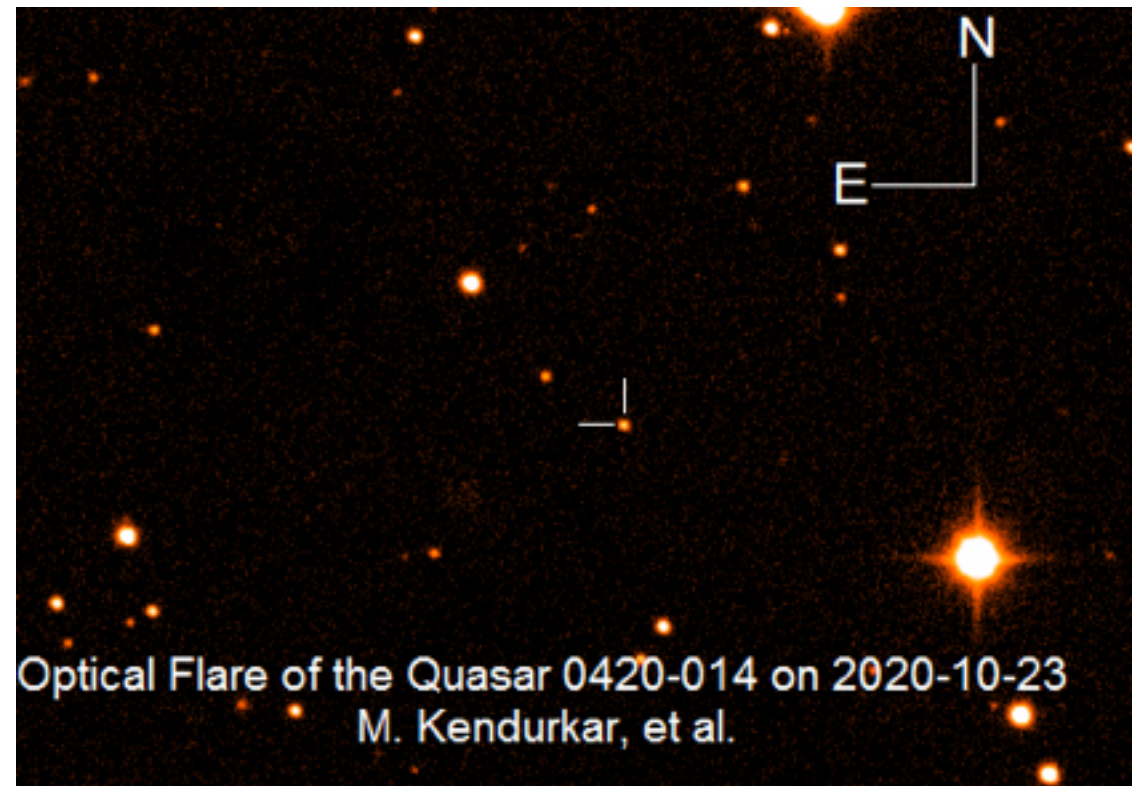
1) GSNST discovery of Type Ia SN



2) Type Ia discovery



3) Type II SN Discovery



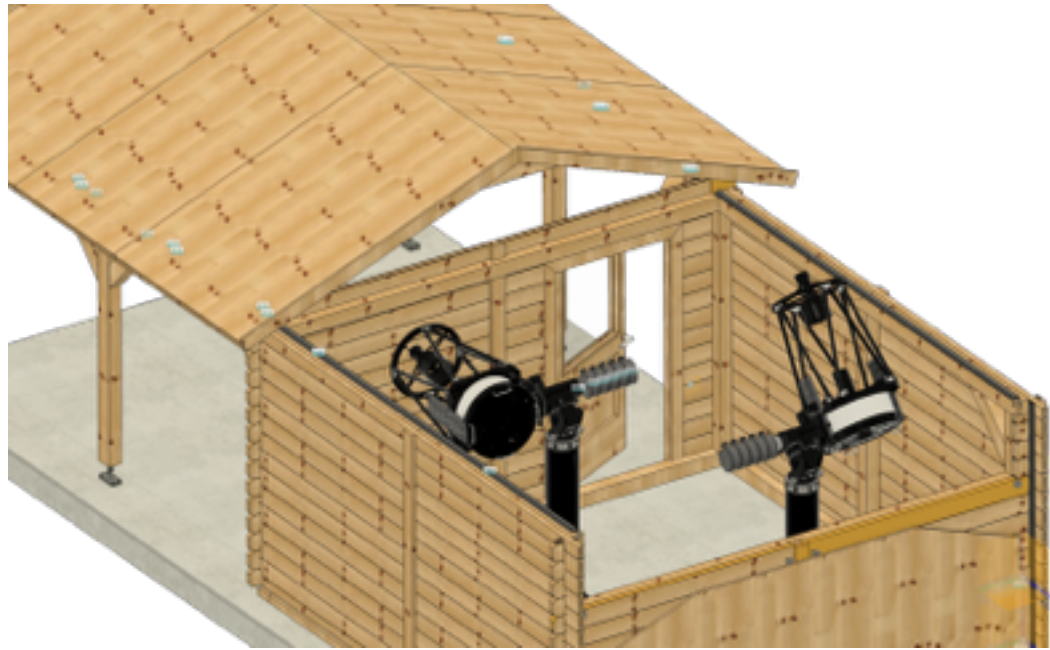
4) Optical Flare of Quasar



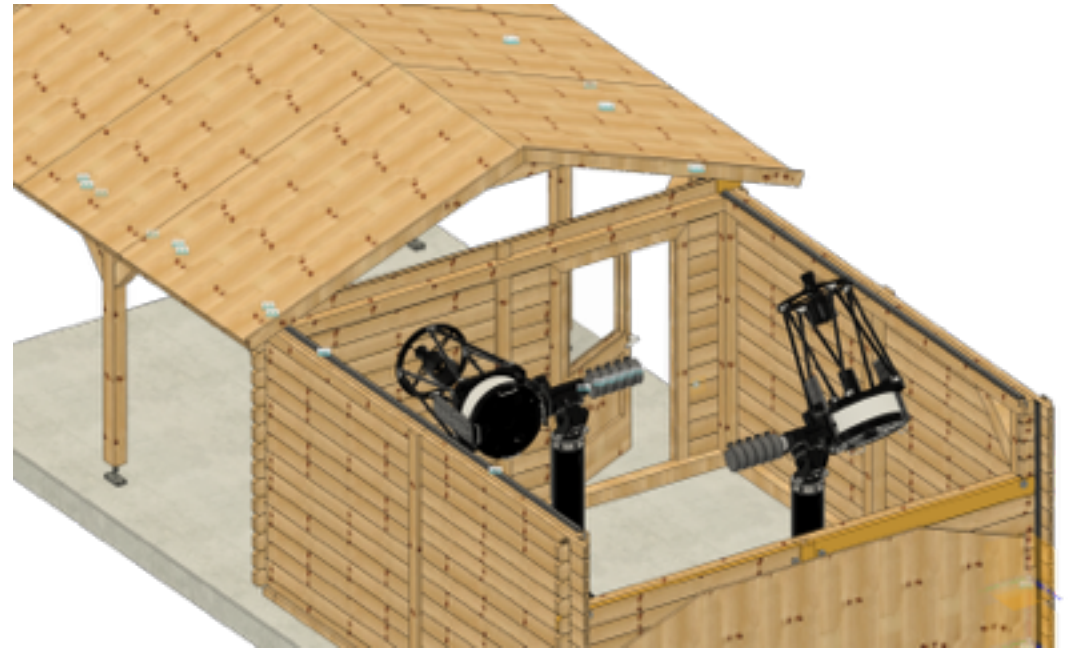


# GSNST Future plans

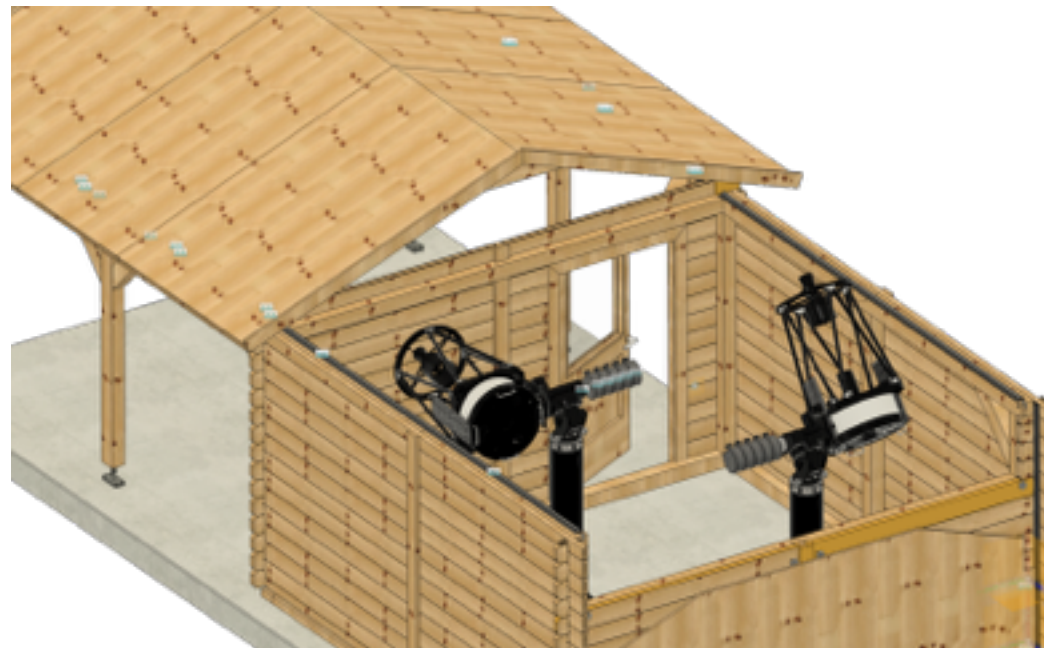
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1)



2)



3)



# Summary

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- Archival data of GSNST will be publicly available from both, the Northern and Southern hemispheres.
- Useful for study of variable stars, (ToM, O-C Curves, Radial Velocities).
- Alerts from Gaia, ZTF, ATLAS and ASAS-SN in CV Band.