

Department of Physics, IIT Kanpur

CONFOCAL MICROSCOPE FACILITY

Confocal Microscope Model: LEICA STELLARIS 5

The Professor in-charge of this facility Dr. Krishnacharya (kcharya@iitk.ac.in)

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This facility was established with the help of DST FIST-2021 funding.

STELLARIS 5 is a confocal point scanning inverted microscope. The maximum scanning area using a 10x objective (HC PL FLUOTAR 10x/0.30 DRY) is 1550 microns x 1550 microns with a minimum pixel size of 0.757 microns. Additional objective options include Obj. HCX PL FL L 20x/0.40, Obj. HC PL FLUOTAR 40x/0.80, and Obj. HC PL APO 63x/1.40 oil. The microscope can be operated in either fluorescence mode or reflection mode. It incorporates three lasers emitting at 488nm (Blue), 561nm (Green), and 638nm (Red), accompanied by two HyD detectors. See the website below for detailed specifications:

<https://www.leica-microsystems.com/products/confocal-microscopes/p/stellaris-8/>

- Slots are available on a payment basis to assist in the expenses for consumables and the device maintenance.
- The payments need to be made to the account of Project No. LDA/IITK/PHY/2023395.
- The charge for a two-hour slot is following:

Users from Physics department	₹ 500
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Users from Other departments/Institutes	₹ 4500
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Users from Other Industries	₹ 7500
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- Users can request booking slots through either online portal (<http://172.28.37.81/booking/>) or offline booking form attached below.

INDIAN INSTITUTE OF TECHNOLOGY KANPUR

DEPARTMENT OF PHYSICS

CONFOCAL MICROSCOPE BOOKING REQUEST FORUM



For TA's USE Only

Booking Number		Booking Date	
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User Details	Name		Roll No./PF	
	Supervisor's Name		Phone No.	
	Department		Email	
	Project No.		Project Expiry Date	
	No. of slots (Each slot is of 2 h)			

Data to be filled by the User

Data to be filled by the User			
Type of Sample(s)			
Material(s) of Sample			
No. of Sample(s)			
Details of the Experiment			
Other Details (If any)			
Kindly transfer Rs		From Project No.	
Expiring on		To account number	LDA/IITK/PHY/2023395

Signature of PI of User

Signature of PI of the Instrument

Instrument charges (per 2 hrs)	
Users from Physics department	₹ 500
Users from Other departments/Institutes	₹ 4500
Users from Other Industries	₹ 7500