

Janet Das Sarma
Memorial
CMTC
Conference

December 18, 2021



S P E A K E R S *

Meng Cheng (Yale)
Sophia Economou (Virginia Tech)
James Eisenstein (Caltech)
Herbert Fertig (U Indiana)
Victor Galitski (UMD)
Steven Girvin (Yale)
Bertrand Halperin (Harvard)
Charles Marcus (Microsoft
Copenhagen)
Chetan Nayak (Microsoft Q)
Jainendra Jain (Penn State)

(* tentative)

O R G A N I Z E R S

Jay Sau (jaydsau@umd.edu)
Jason Kestner (jkestner@umbc.edu)
Rebecca Cawthorne (rcawthor@umd.edu)

C O N F E R E N C E D E T A I L S :

We are pleased to announce the 2021 Janet Das Sarma Memorial CMTC Conference, a scientific conference in memory of Janet Das Sarma, who played a crucial behind-the-scene role in making the Condensed Matter Theory Center at the University of Maryland (www.physics.umd.edu/cmtdc/) a success and profoundly affected all aspects of the center. Janet was the only administrative assistant CMTC ever had, until her death on December 2, 2019 (<https://umdphysics.umd.edu/about-us/news/departments-news/1532-janet-das-sarma-1971-2019.html>). **This one-day conference will be held at The Hotel at UMD on December 18, 2021**, and will

include 9 scientific talks covering frontier areas of Condensed Matter physics that have been the center of activity at CMTC delivered by scientists who knew Janet the longest. The talks will be followed by a dinner and formal remembrances of Janet by the attendees, celebrating her role in the success of CMTC. The plan is for attendees to arrive on Friday December 17 and depart on Sunday December 19. This conference is by invitation-only and all local expenses (hotel, food, coffee, etc.) will be covered by CMTC. For those who want to spend a few extra days at CMTC doing physics, the appropriate office space will be available.



Condensed Matter
Theory Center

WWW.PHYSICS.UMD.EDU/CMTC

The 2021 Janet Das Sarma Memorial CMTC Conference



DECEMBER 18, 2021

The Hotel at the University of Maryland

Hosted by the Condensed Matter Theory Center

Saturday, December 18

8:00am-9:00am	Breakfast
9:00am-9:10am	Introduction
	Quantum Hall Effect
9:10am-10:00am	Bertrand Halperin, "Spin Waves and Skyrmions in Graphene Quantum Hall States" Chair: Bob Willett
10:00am-10:50am	James Eisenstein, "From Independent Layers to Exciton Condensation: 30 Years of Fun and Games with Bilayer Quantum Hall Systems" Chair: Bob Willett
10:50am-11:10am	Coffee Break
11:10am-12:00pm	Herbert Fertig, "Quantum Geometric Dipole in Collective Excitations" Chair: Bob Willett
12:00pm-1:00pm	Lunch
	Quantum Computing
1:00pm-1:50pm	Steven Girvin, "Adventures in Phase Space: Quantum Error Correction with Bosonic Codes" Chair: Bob Willett
1:50pm-2:40pm	Sophia Economou, "Efficient Variational Quantum Algorithms" Chair: Eugene Demler
2:40pm-3:00pm	Coffee Break
	Theory
3:00pm-3:50pm	Chetan Nayak, "Floquet Time Crystals" Chair: Eugene Demler
3:50pm-4:40pm	Victor Galitski, "Universal Mechanism of Many-Body Quantum Chaos" Chair: Eugene Demler
4:40pm-5:30pm	Meng Cheng, "Defects and Disorder Operators in (2+1)d Quantum Phases" Chair: Eugene Demler
5:30pm-6:00pm	Wine
6:00pm-7:30pm	Dinner (and open mic*)
7:30pm	Closing Remarks

*Beginning at 7pm, anyone is welcome to share a few words remembering Janet's remarkable career at CMTc