

# **String Math 2020**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Opening Address

*Monday, July 27, 2020 1:30 PM (30 minutes)*

**Presenter:** MURUGAN, Jeff (UCT)

Contribution ID: 2

Type: **not specified**

## Continuum Quantum Field Theory for Fractons

*Monday, July 27, 2020 2:00 PM (40 minutes)*

**Presenter:** SHAO, Shu-Heng (IAS)

**Session Classification:** 2pm

Contribution ID: 3

Type: **not specified**

## Questions

*Monday, July 27, 2020 2:40 PM (20 minutes)*

**Session Classification:** 2pm

Contribution ID: 4

Type: **not specified**

## Questions

*Monday, July 27, 2020 3:40 PM (20 minutes)*

**Session Classification:** 2pm

Contribution ID: 5

Type: **not specified**

## W Algebras

*Monday, July 27, 2020 3:00 PM (40 minutes)*

**Presenter:** CREUTZIG, Thomas (University of Alberta)

**Session Classification:** 2pm

Contribution ID: 6

Type: **not specified**

## **Supergroup Chern-Simons theory, q-series, and resurgence**

*Monday, July 27, 2020 4:00 PM (40 minutes)*

**Presenter:** PUTROV, Pavel (ICTP, Trieste)

**Session Classification:** 2pm

Contribution ID: 7

Type: **not specified**

## Questions

*Monday, July 27, 2020 4:40 PM (20 minutes)*

**Session Classification:** 2pm



Contribution ID: 8

Type: **not specified**

## Gauging 1-form symmetries in 2d theories

*Monday, July 27, 2020 5:00 PM (40 minutes)*

**Presenter:** SHARPE, Eric (Virginia Tech)

**Session Classification:** 5pm

Contribution ID: 9

Type: **not specified**

## **3d Mirror Symmetry and HOMFLY Homology**

*Monday, July 27, 2020 6:00 PM (40 minutes)*

**Presenter:** DIMOFTE, Tudor (UC Davis & Edinburgh)

**Session Classification:** 5pm

Contribution ID: **10**

Type: **not specified**

## Questions

*Monday, July 27, 2020 6:40 PM (20 minutes)*

**Session Classification:** 5pm

Contribution ID: 11

Type: **not specified**

## Questions

*Monday, July 27, 2020 5:40 PM (20 minutes)*

**Session Classification:** 5pm

Contribution ID: 12

Type: **not specified**

## **Breakaway**

*Monday, July 27, 2020 7:00 PM (1 hour)*

**Session Classification:** 5pm

Contribution ID: 13

Type: **not specified**

## **Associated varieties and 4D/2D correspondence**

*Tuesday, July 28, 2020 2:00 PM (40 minutes)*

**Presenter:** ARAKAWA, Tomoyuki (Kyoto University)

**Session Classification:** 2pm

Contribution ID: 14

Type: **not specified**

## Questions

*Tuesday, July 28, 2020 2:40 PM (20 minutes)*

**Session Classification:** 2pm

Contribution ID: 15

Type: **not specified**

## **Topological string partition functions from quantum curves**

*Tuesday, July 28, 2020 3:00 PM (40 minutes)*

**Presenter:** TESCHNER, Joerg (Desy)

**Session Classification:** 2pm



Contribution ID: 16

Type: **not specified**

## Questions

*Tuesday, July 28, 2020 3:40 PM (20 minutes)*

**Session Classification:** 2pm

Contribution ID: 17

Type: **not specified**

## Quantum modularity of 3-manifold invariants

*Tuesday, July 28, 2020 4:00 PM (40 minutes)*

**Presenter:** FERRARI, Francesca (SISSA)

**Session Classification:** 2pm

Contribution ID: **18**

Type: **not specified**

## Questions

*Tuesday, July 28, 2020 4:40 PM (20 minutes)*

**Session Classification:** 2pm

Contribution ID: 19

Type: **not specified**

## The spectrum on $M_{\{0,4\}}$ via Liouville theory

*Tuesday, July 28, 2020 6:00 PM (40 minutes)*

**Presenter:** HARRISON, Sarah (McGill)

**Session Classification:** 5pm

Contribution ID: 20

Type: **not specified**

## **Universes as Big Data, or, Machine-Learning Mathematical Structures**

*Tuesday, July 28, 2020 5:00 PM (40 minutes)*

**Presenter:** HE, Yang-Hui (Oxford & City, University of London)

**Session Classification:** 5pm

Contribution ID: 21

Type: **not specified**

## Questions

*Tuesday, July 28, 2020 6:40 PM (20 minutes)*

**Session Classification:** 5pm

Contribution ID: 22

Type: **not specified**

## Questions

*Tuesday, July 28, 2020 5:40 PM (20 minutes)*

**Session Classification:** 5pm

Contribution ID: 23

Type: **not specified**

## **Breakaway**

*Tuesday, July 28, 2020 7:00 PM (1 hour)*

**Session Classification:** 5pm



Contribution ID: 24

Type: **not specified**

## **GLSMs, localisation, and the stringy Kahler moduli space**

*Wednesday, July 29, 2020 2:00 PM (40 minutes)*

**Presenter:** KNAPP, Johanna (University of Melbourne)

**Session Classification:** 2pm

Contribution ID: 25

Type: **not specified**

## Questions

*Wednesday, July 29, 2020 2:40 PM (20 minutes)*

**Session Classification:** 2pm

Contribution ID: 26

Type: **not specified**

## On compactifications of 6d relative theories

*Wednesday, July 29, 2020 3:00 PM (40 minutes)*

**Presenter:** PEI, Du (Harvard)

**Session Classification:** 2pm

Contribution ID: 27

Type: **not specified**

## **Matter representation and the geography of Lie subalgebras: an extension of the Katz-Vafa method**

*Wednesday, July 29, 2020 4:00 PM (40 minutes)*

**Presenter:** MBOYO ESOLE, Jonathan (Northeastern University)

**Session Classification:** 2pm

Contribution ID: 28

Type: **not specified**

## Questions

*Wednesday, July 29, 2020 3:40 PM (20 minutes)*

**Session Classification:** 2pm

Contribution ID: 29

Type: **not specified**

## Questions

*Wednesday, July 29, 2020 4:40 PM (20 minutes)*

**Session Classification:** 2pm

Contribution ID: **30**

Type: **not specified**

## **The secret topological life of shared information**

*Wednesday, July 29, 2020 5:00 PM (40 minutes)*

**Presenter:** MAINIERO, Thomas (Rutgers)

**Session Classification:** 5pm

Contribution ID: 31

Type: **not specified**

## Questions

*Wednesday, July 29, 2020 5:40 PM (20 minutes)*

**Session Classification:** 5pm



Contribution ID: 32

Type: **not specified**

## Twisted Holography & Koszul Duality

*Wednesday, July 29, 2020 6:00 PM (40 minutes)*

**Presenter:** PAQUETTE, Natalie (Caltech)

**Session Classification:** 5pm

Contribution ID: 33

Type: **not specified**

## Questions

*Wednesday, July 29, 2020 6:40 PM (20 minutes)*

**Session Classification:** 5pm

Contribution ID: **34**

Type: **not specified**

## **Breakaway**

*Wednesday, July 29, 2020 7:00 PM (1 hour)*

**Session Classification:** 5pm

Contribution ID: 35

Type: **not specified**

## **4d Chern-Simons Theory as a 3d Toda Theory, and a 3d-2d Correspondence**

*Thursday, July 30, 2020 2:00 PM (40 minutes)*

**Presenter:** TAN, Meng-Chwan (National University of Singapore)

**Session Classification:** 2pm

Contribution ID: 36

Type: **not specified**

## Questions

*Thursday, July 30, 2020 2:40 PM (20 minutes)*

**Session Classification:** 2pm

Contribution ID: 37

Type: **not specified**

## **3d $N=2$ chiral algebras and dualities**

*Thursday, July 30, 2020 3:00 PM (40 minutes)*

**Presenter:** COSTELLO, Kevin (Perimeter)

**Session Classification:** 2pm

Contribution ID: 38

Type: **not specified**

## **Modularity of BPS invariants on Elliptic Fourfolds and the Weak Gravity Conjecture**

*Thursday, July 30, 2020 4:00 PM (40 minutes)*

**Presenter:** WEIGAND, Timo (Heidelberg)

**Session Classification:** 2pm

Contribution ID: 39

Type: **not specified**

## Volumes of Supermoduli Spaces

*Thursday, July 30, 2020 5:00 PM (40 minutes)*

**Presenter:** WITTEN, Edward (IAS)

**Session Classification:** 5pm



Contribution ID: 40

Type: **not specified**

## Questions

*Thursday, July 30, 2020 3:40 PM (20 minutes)*

**Session Classification:** 2pm

Contribution ID: 41

Type: **not specified**

## Questions

*Thursday, July 30, 2020 4:40 PM (20 minutes)*

**Session Classification:** 2pm

Contribution ID: 42

Type: **not specified**

## Questions

*Thursday, July 30, 2020 5:40 PM (20 minutes)*

**Session Classification:** 5pm

Contribution ID: 43

Type: **not specified**

## **Breakaway**

*Thursday, July 30, 2020 6:00 PM (40 minutes)*

**Session Classification:** 5pm

Contribution ID: 44

Type: **not specified**

## **Public Talk (TBA)**

*Thursday, July 30, 2020 7:00 PM (40 minutes)*

**Presenter:** DIJKGRAAF, Robbert (IAS)

**Session Classification:** 5pm

Contribution ID: 45

Type: **not specified**

## On SCFTs at canonical singularities

*Friday, July 31, 2020 2:00 PM (40 minutes)*

**Presenter:** CLOSSET, Cyril (Oxford)

**Session Classification:** 2pm

Contribution ID: 46

Type: **not specified**

## Questions

*Friday, July 31, 2020 2:40 PM (20 minutes)*

**Session Classification:** 2pm

Contribution ID: 47

Type: **not specified**

## Curve counting and S-duality

*Friday, July 31, 2020 3:00 PM (40 minutes)*

**Presenter:** FEYZBAKSH, Soheyla (Imperial)

**Session Classification:** 2pm



Contribution ID: 48

Type: **not specified**

## Protected spin characters, link invariants and spectral networks

*Friday, July 31, 2020 4:00 PM (40 minutes)*

**Presenter:** NEITZKE, Andy (Yale)

**Session Classification:** 2pm

Contribution ID: 49

Type: **not specified**

## Questions

*Friday, July 31, 2020 3:40 PM (20 minutes)*

**Session Classification:** 2pm

Contribution ID: 50

Type: **not specified**

## Questions

*Friday, July 31, 2020 4:40 PM (20 minutes)*

**Session Classification:** 2pm

Contribution ID: 51

Type: **not specified**

## **Comments on Large Strings/Operators in N=4 SYM**

*Friday, July 31, 2020 5:00 PM (40 minutes)*

**Presenter:** VIERA, Pedro (Perimeter)

**Session Classification:** 5pm

Contribution ID: 52

Type: **not specified**

## **Mock modularity and a secondary invariant**

*Friday, July 31, 2020 6:00 PM (40 minutes)*

**Presenter:** JOHNSON-FREYD, Theo (Perimeter)

**Session Classification:** 5pm

Contribution ID: 53

Type: **not specified**

## Questions

*Friday, July 31, 2020 6:40 PM (20 minutes)*

**Session Classification:** 5pm

Contribution ID: 54

Type: **not specified**

## Questions

*Friday, July 31, 2020 5:40 PM (20 minutes)*

**Session Classification:** 5pm

Contribution ID: 55

Type: **not specified**

## **Breakaway**

*Friday, July 31, 2020 7:00 PM (1 hour)*

**Session Classification:** 5pm