## Correlated Electrons Day 2019 Technion June 20

Organizers: A. Auerbach, E. Berg, Y. Dagan, Y. Meir, D. Orgad, & E. Shimshoni

09:00 Bus leaves from Hof Hacarmel to Technion 09:30-10:00 Gathering and coffee. Room 500 Lidow Building

First Session: 10:00-12:30 (15 min talks) Chair: Daniel Podolsky

**Udit Kahana (TAU)** (Goldstein): Symmetry and correlation effects on band structure explain the anomalous transport properties of oxide interfaces.

**Amit Keren** (Technion) Is magnetism relevant to cuprate superconductivity? lanthanides versus charge compensated 123

**Jonathan Ruhman** (BIU) Dynamical phase transition in systems undergoing repeated projective measurement

Danny Shahar (WIS) Hot Superconductors and Cold Insulators

**Ehud Altman** (Berkeley) ) Theory of Entanglement transitions and natural error correction in quantum systems with measurements.

Chair: Yigal Meir

Dima Gutman (BIU) Thermal transport in one dimensional electronic fluid

**Snir Gazit** (HUJI) The orthogonal semi-metal: deconfined criticality and Fermi-surface reconstruction without translational symmetry breaking.

Yshai Manassen (BGU) Single spin magnetic resonance

**Itai Silber** (TAU) (Dagan) Insights from Specific heat and torque magnetometry about the ground state of 1T-TaS2, a quantum spin liquid state?

Daniel Podolsky (Technion) Higgs amplification in non-equilibrium K3C60

## 12:30-14:00 Lunch and chats

Second Session: 14:00-16:30 (15 min talks) Chair: Efrat Shimshoni

Dan Arovas (UCSD) Magnetotransport in a model of a disordered strange metal

**Erez Berg** (WIS) Theory of a strange metal from hot fermions

**Aviad Frydman**, (BIU) "Experimental probing of quantum criticality at the superconductor insulator transition".

**Yigal Meir** (BGU) Observation of non-cyclic geometric phase jumps with a spatial matter-wave SU(2) interferometer

**David Möckli** (HUJI) (Khodas) s+if pairing in Ising superconductors induced by magnetic field

Chair: Erez Berg

**Konstantin Yavilberg**, (BGU) Differentiating Majorana from Andreev Bound States in a Superconducting Circuit

**David Mross** (WIS) Bridging partons and coupled-wire approaches to strongly entangled quantum matter

**Tom Dvir** (HUJI) (Steinberg) Andreev bound states in van der Waals heterostructures

Roni Majlin (TAU) Dagan) On 4Hb TaS2

Assa Auerbach (Technion) Hall Anomalies in Strongly Correlated Metals

16:30 Coffee, chats and farewells