

## Persistent Spontaneous Symmetry Breaking at High Temperatures (T: 50mn + Q: 10mn)

*mercredi 11 mai 2022 09:00 (1 heure)*

I will describe the results of a series of works in which we have found systems for which Spontaneous Symmetry Breaking(SSB) persists to very high temperatures. The systems involve Conformal Field Theories of scalars in fractional dimensions  $3 < d < 3$  and for Gauge Theories in  $d=4$ . The systems are studied in the limit of various large numbers of species. In the process, we have found non-supersymmetric conformal manifolds as well as cases of non-supersymmetric effective potentials with flat directions. The SSB results in the formation of a dilaton.

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**Classification de Session:** Morning chair: TBC