



The Abdus Salam  
**International Centre  
for Theoretical Physics**



Politecnico  
di Torino

UNIVERSITÉ  
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complex  
systems



**JSTAT**  
Journal of Statistical Mechanics  
Theory and Experiment

This is to certify that

**Mahsa ALIKAHI**

participated in and completed the

**Spring College in the Physics of Complex Systems**

17 February - 14 March 2025  
ICTP, Trieste, Italy

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