

**Title : Theory of Many-Body Quantum States**

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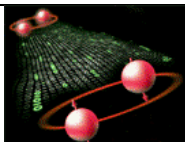
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**Research Area :** Condensed Matter Physics, Quantum Science and Technology

**Methods:** Analytical and also possibly Numerical

**PhD track subject :**



Recently, progress has been realized in solid-state physics, cavity and circuit quantum electrodynamics, cold atoms to achieve and probe new states of matter. Our goals are to address new models with practical applications through topological properties, interaction effects, quantum dynamics in real time and quantum information, developing mathematical and algorithmic tools. This research finds applications in science and technology.

**References :**

You can have a look at various references on my web page

There are also recent presentations.