

Quantum Geometry in Kagome Models

Abstract

The kagome lattice is one of the most interesting platform for investigating

1 Introduction

2 Monolayer Kagome Tight-Binding Model

In this section, we review the tight-binding models for Kagome monolayers, comment on the band structure, and explore the quantum band geometry under various conditions.

3 Tight-Binding Models for AA-Stacked Kagome Bilayers

3.1 Band Structure for the Bilayer System

3.2 Quantum Geometry for the Bilayer System