
Building Kernels for Advanced Discrimination #23

New issue

 Open

nbronn opened this issue yesterday · 0 comments



nbronn commented yesterday

Abstract

Explore different ways of classifying and analyzing the results of qubit measurements.

Description

Measurement kernels allow different methods for qubit state discrimination (see [tutorial](#)). This may involve processing level 0 (voltage waveform) data to level 1 (IQ) data to level 2 (classified) data. Aspects which could be interesting to study include

- Discrimination of multi-qubit states, which could be affected by crosstalk in the joint measurement
- Simulation of repeated measurements using post-selection
- Machine learning to discriminate states, including higher-order transmon levels (see [here](#) and [here](#))

Members

- **@nbronn**
- Qiskit Coach: **@nbronn**

Deliverable

GitHub repo

Assignees

No one assigned

Labels

from Coach

Projects

None yet

Milestone

No milestone

3 participants



1ucian0 added the **from Coach** label

16 hours ago



hodgestar commented 12 minutes ago

