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Abstract for an Invited Paper
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Applying QCVV protocols to real physical systems.¹

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As experimental systems move closer to realizing small-scale quantum computers with high fidelity operations, errors become harder to detect and diagnose. Verification and validation protocols are becoming increasingly important for detecting and understanding the precise nature of these errors. I will outline various methods and protocols currently used to deal with errors in experimental systems. I will also discuss recent advances in implementing high fidelity operations which will help to understand some of the tools that are still needed on the road to realizing larger scale quantum systems.

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