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**Desai Cheng\*** (chengdesai@yahoo.com), 311 Hamilton Rd., Ridgewood, NJ 07450, and **Peter Casazza, Sara Botelho-Andrade** and **Tin T Tran**. *The solution to the frame Quantum Detection Problem.*

We will give a complete solution to the frame quantum detection problem. We will solve both cases of the problem: the quantum injectivity problem and quantum state estimation problem. We will answer the problem in both the real and complex cases and in both the finite dimensional and infinite dimensional cases.

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