We have a protocol that only uses BB84 states.

Great, let's implement it!
How much noise you can tolerate?

No noise

Hmmm.. OK.
How many states do you need to send?

poly(λ)

What is λ?

The security parameter.
How many bits of security do you achieve?

poly(λ)

This λ again...
And the classical post-processing?

No idea how to implement it.

...

...