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## Update on pyramid topics: spiders, LWE, NCPAs, M4, sensitivtiy, K vs R band, ...

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## Summary

We summarize our experience on the performance of several wavefront reconstruction algorithms under a variety of real-life phenomena.

We compare several approaches solving the spiders problem (pupil fragmentation), and focus on illumination and modulation as parameters influencing the result. Also, we analyze the severity of the pupil fragmentation problem in different bands and the related sensitivity or optical gain of the pyramid sensor.

We demonstrate results including the real M4 geometry. Additionally, we show first tests to evaluate the performance of the suggested reconstruction algorithms in the presence of non-common path aberrations.

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