## **IV Workshop ADONI**



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## Small-scale magnetic features as science drivers for high-resolution solar observations

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Mixed-polarity magnetic fields in the same resolution element of bi-dimensional solar images are known to produce an artificial magnetic flux cancellation. This effect often prevents us from investigating the rich dynamics of small-scale magnetic flux concentrations revealed by the sharpest observations of the solar atmosphere.

In this contribution, we report on a selection of science cases that can take advantage of diffraction-limited facilities equipped with adaptive optics in the context of solar observations, like the evolution of quiet-Sun magnetic elements and the fine structure of sunspot umbrae and penumbrae.

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