Modification of Si substrate bonding by Ge or Si ad-dimers

* The strain field extends out at least 3 Si dimers!
* The Si dimers are pinned less buckled.
* STM sensitivity is enhanced at low-bias empty-state imaging.

Sample bias: +0.8 V

Qin, et al., *PRL* 81, 2288 (1998)
Empty-state imaging of a diluted ad-dimer row

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