Geometry Seminar Tuesday, November 23, 2010 Room 201 WWH at 6:00 P.M.

## Improved Bounds for the Union of Fat Triangles.

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We show that, for any fixed  $\delta > 0$ , the combinatorial complexity of the union of n triangles in the plane, each of whose angles is at least  $\delta$ , is  $O(n2^{\alpha(n)} \log^* n)$ , with constant of proportionality depending on  $\delta$ . This considerably improves the twenty-year-old bound  $O(n \log \log n)$ , due to Matousek etal.

Joint work with Boris Aronov and Micha Sharir.

For more information please visit the seminar website at: http://www.math.nyu.edu/seminars/geometry\_seminar.html.