1070-32-289David E Barrett\* (barrett@umich.edu), Math Department, 530 Church St, Ann Arbor, MI<br/>48109-1043. Isoperimetric problems and Sobolev inequalities in several complex<br/>variables. Preliminary report.

The talk will examine relations between the following three topics:

- isoperimetric problems connected with Fefferman's surface measure for strongly pseudoconvex boundaries;
- sub-Riemannian Sobolev inequalities and related extensions of a Hardy-Littlewood inequality;
- the CR Yamabe problem studied by Jerison and Lee.

(Received February 14, 2011)