

## LOCAL AND GLOBAL $C$ -REGULARITY

GÖKHAN GÖĞÜŞ, SABANCI UNIVERSITY

Let  $D$  be a domain in  $\mathbb{C}^n$ . The *plurisubharmonic envelope* of a function  $\varphi \in C(\overline{D})$  is the supremum of all plurisubharmonic functions which are not greater than  $\varphi$  on  $D$ . A bounded domain  $D$  is called  *$c$ -regular* if the envelope of every function  $\varphi \in C(\overline{D})$  is continuous on  $D$  and extends continuously to  $\overline{D}$ . The purpose of this talk is to give a complete characterization of  $c$ -regular domains in terms of *Jensen measures*. We show using Gauthier's Fusion Lemma that a domain is locally  $c$ -regular if and only if it is  $c$ -regular.