

**UIC Model Theory Seminar, November 1, 2005**

**Minimality conditions on circularly ordered structures**

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We explore analogues of o-minimality and weak o-minimality for circularly ordered sets. Much of the theory goes through almost unchanged, since over a parameter the circular order yields a definable linear order. Working over  $\emptyset$  there are differences. Our main result is a structure theory for  $\aleph_0$ -categorical weakly circularly minimal structures. This is joint work with Dugald Macpherson.