

1079-16-348

**Ian M Musson\***, Department of Mathematical Sciences, UW-Milwaukee, Milwaukee, WI  
53201-0413. *Šapovalov elements for basic classical simple Lie superalgebras*. Preliminary report.

Šapovalov elements play a key role in the representation theory of a complex semisimple Lie algebra. We construct Šapovalov elements in the enveloping algebra of a basic classical simple Lie superalgebra, prove their uniqueness and study their properties.

Šapovalov elements corresponding to non-isotropic roots behave in a way that is very similar to the semisimple case. However new phenomena arise from isotropic roots. (Received January 17, 2012)