

1125-D1-3104      **David L Neel\*** ([neeld@seattleu.edu](mailto:neeld@seattleu.edu)), PO Box 222000, 901 12th Ave, Seattle, WA 98122.

*Mathematics beyond Mathematics: Uses and Abuses (Part II)*. Preliminary report.

Mathematicians can become surly when non-mathematicians use mathematics for non-mathematical purposes. Uses that are obviously figurative are usually okay, as are art/geometry connections. But when the non-mathematician attempts to use an abstract mathematical concept outside of its mathematical context in a serious academic way? Mayhem and consternation from the mathematicians. True, sometimes the use is abuse. But sometimes work that has merit (perhaps measured using unfamiliar metrics) might be unduly dismissed by mathematicians in their enthusiasm to point out its mathematical flaws. This talk will focus on the work of Krauss and Badiou, in a preliminary attempt to characterize work that advances knowledge and to sort it from work that uses mathematics for intellectual posturing, or worse. (Received September 21, 2016)