

1023-22-612

Dan Barbasch (barbasch@math.cornell.edu) and **Alessandra Pantano***
(pantano@math.cornell.edu). *Methods for studying complementary series of split
groups*. Preliminary report.

The unitarity of a complementary series representation depends on the positivity of an intertwining operator. I will describe a method for comparing intertwining operators for different split groups. Using this method one can relate complementary series representations for (large) non-linear groups to those of (smaller) linear groups.

In this talk, I will focus on one particular non-linear group, the double cover of the real split F_4 , and its non-spherical complementary series. (Received September 19, 2006)