

## Conjugation classes of pairs in $SL(4, \mathbb{C})$ and $SU(3, 1)$

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We first describe a symmetric minimal global coordinate system on the  $SL(4, \mathbb{C})$ -character variety of a rank 2 free group  $F_2$ . Restricting this coordinate system gives a smaller global trace coordinates on the representation variety of  $F_2$  into  $SU(3, 1)$ . This is a joint work with Sean Lawton.