1046-53-1081   **S Adam Sikora*** (`asikora@buffalo.edu`), 244 Math Bldg, SUNY Buffalo, Buffalo, NY 14260.
3-manifolds whose character varieties are not Lagrangian. Preliminary report.

W. Goldman proved that for every orientable closed surface F and a reductive (complex or real) Lie group G the G-character variety $X_G(F)$ of F is (real or holomorphic) singular symplectic manifold. Furthermore, he showed that for every oriented 3-manifold bounding F, the image of $X_G(M)$ is isotropic in $X_G(F)$. In fact, $X_G(M)$ is a Lagrangian submanifold for most "easy to define" 3-manifolds. We will show explicit constructions of 3-manifolds for which $X_G(M)$ is not Lagrangian. (Received September 14, 2008)