1026-34-177 **Jonathan Alexander Aidan*** (`aidan@math.jussieu.fr`), 175, rue Chevaleret, Bureau 7C08, 75013 Paris, France. *Symplectic Properties of the Space of Differential Equations in the Space of Logarithmic Systems.*

Let $n \geq 1$, let S be a finite set of points of the Riemann sphere, and let $\mathcal{M}$ be the moduli space of irreducible fuchsian systems of rank n with logarithmic singularities lying in S and given "generic" local monodromies. This space is naturally endowed with a symplectic structure ω. Let further $\mathcal{E}$ be the space of irreducible fuchsian differential equations of order n, with singularities lying in S and same local monodromies. Following a construction of van der Put and Singer, we can locally embed $\mathcal{E}$ as a subspace $\mathcal{N}$ of $\mathcal{M}$. As remarked by N. Katz, the dimension of $\mathcal{N}$ is half the dimension of $\mathcal{M}$. We elaborate on this remark by proving that $\mathcal{N}$ is a lagrangian subspace of $\mathcal{M}$ relatively to the symplectic structure ω. (Received February 26, 2007)