

Loops of infinite order and Toric Foliations

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In 2005, Dullin et al. proved that for a Lagrangian toric foliation induced by an integrable Hamiltonian system, if the Maslov number is non-zero on some Lagrangian torus T , then the vector of its Maslov indices is a common eigenvector with eigenvalue 1 for the monodromy matrices of the torus bundles over the loops beneath T .

We take a close look at the geometry behind this result and extend it to a more general setting. This is a joint work with K. Efsthathiou and H. Waalkens.