REPORT.

My short stay in Oberwolfach as Leibnitz fellow as been studious and fruitful. The working conditions are excellent and the library is a great tool in order to work. That there is also no material preoccuptions, and it has been very helpfull.

During my stay I mainly worked on the cotangent sheaf of a surface that is complete intersection of 2 hypersurfaces into \mathbb{P}^4 , trying to construct high order symmetric differentials, in order to prove the quasi-hyperbolicity of these surfaces.

Papers of Bruckmann shows how difficult they are to construct. This is a very interesting and active topic, and it has been proved recently (Jan 2011) by Damian Broteck that such surfaces have ample cotangent bundle when the 2 hypersurfaces are generic.

I discussed and worked a lot by emails, with Joël Merker on these topics. I wish to come again. Xavier Roulleau IRMA 7 rue René Descartes 67100 Strasbourg France xroulleau @ math.unistra.fr