Documentation for the program "SymplecticFillings"

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The program SymplecticFillings [1] lists symplectic fillings of the links of quotient surface singularities which are neither cyclic quotient nor dihedral according to the algorithm presented in [3]. As input the program takes a file named "SingularitiesList.txt". Each line in the input file should present the compactifying divisor corresponding to a quotient surface singularity link according to [2]. The format should be

Type
$$D \cdot D \ C_1 \cdot C_1 \ \cdots \ C_k \cdot C_k$$
,

where "1" denotes type (3,2) and "2" denotes type (3,1). As output the program produces a file named "FillingsList.txt". In this file, a list of minimal symplectic fillings of the singularity links presented in the file SingularitiesList.txt is given. The format of the presentation in FillingsList.txt is as described in [2].

References

- [1] M. Bhupal, C++program to compute symplectic fillings of links of quotient surface singularities, Available at www.metu.edu.tr/~bhupal.
- [2] M. Bhupal M. and K. Ono, Symplectic fillings of links of quotient surface singularities, Nagoya Math. J. 207 (2012), 1-45.
- [3] M. Bhupal M. and K. Ono, Erratum to "Symplectic fillings of links of quotient surface singularities", preprint.

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