ELEMENTS IN ALGEBRAIC K-THEORY VIA DU VAL SINGULARITIES

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Abstract: By the work of Jones and Westbury, for normal surface singularities with homology sphere link, one can construct elements in the algebraic K-theory of the complex numbers. In the case of the Du Val singularities the only singularity with homology sphere link is E_8, hence we can not use their results for all the Du Val singularities. In this talk, we will generalize the construction of Jones and Westbury to the case of Du Val singularities. Furthermore, we will see that both constructions coincide in the case of the singularity E_8.