

SEMINÁRIO DE GEOMETRIA

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New singularity invariants of a reduced complex space

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Abstract:

We introduce new coherent sheaves on a reduced complex space which extend the usual sheaves of holomorphic forms at smooth points and which has the "universal pull-back property." This means that despite sections of these sheaves are meromorphic differential forms they admit a functorial pull-back by any holomorphic map (even if the image of the map lies in the poles of such a form). These sheaves are stable by exterior product and de Rham differential and we shall give some examples where they are distinct of the usual sheaves of forms already used on reduced complex spaces.

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