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On relative singular support in mixed characteristic

Thursday, 13 June 2024 10:00 (1 hour)

The notion of micro support in mixed characteristic is formulated using the Frobenius–Witt cotangent bundle but the existence of the singular support is not yet known. We introduce a relative notion of micro support over a fixed regular scheme S and prove the existence of a saturation of the relative singular support on smooth schemes over S. The proof is a variation of that by Beilinson using the Radon transform.

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