



UNIVERSITÀ DI PARMA

DIPARTIMENTO DI SCIENZE MATEMATICHE, FISICHE E INFORMATICHE

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SEMINARIO

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On Griffiths' conjecture

about the positivity of Chern–Weil forms!

Venerdì 24 febbraio 2023, ore 14:30

Aula A, Plesso di Matematica

Campus - Parco Area delle Scienze 53/A, 43124 Parma

Abstract: In the last few years there has been a renewed interest around an old conjecture by Griffiths characterizing which should be the positive characteristic differential forms for any Griffiths positive vector bundle. This conjecture can be interpreted as the differential geometric counterpart of the celebrated Fulton-Lazarsfeld theorem on positive polynomials for ample vector bundles. The aim of this talk is to present a recent result that confirms the above conjecture for several characteristic forms. The positivity of these differential forms is due to a theorem which provides the version at the level of representatives of the universal push-forward formula for flag bundles valid in cohomology.

Organizzatore: prof. Adriano Tomassini