

Morozov, A. Yu.; Perelomov, A. M.

Complex geometry and string theory. (English. Russian original) [Zbl 0787.32026](#)

Several complex variables. V: Complex analysis in partial differential equations and mathematical physics, *Encycl. Math. Sci.* 54, 195-280 (1993); translation from *Itogi Nauki Tekh., Ser. Sovrem. Mat., Fundam. Napravleniya* 54, 197-279 (1989).

See the review in [Zbl 0714.32008](#).

For the entire collection see [\[Zbl 0782.00028\]](#).

MSC:

[32G81](#) Applications of deformations of analytic structures to the sciences

[81T30](#) String and superstring theories; other extended objects (e.g., branes) in quantum field theory

[32G15](#) Moduli of Riemann surfaces, Teichmüller theory (complex-analytic aspects in several variables)

[58D30](#) Applications of manifolds of mappings to the sciences

Keywords:

[string theory](#); [moduli space of Riemann surfaces](#); [Mumford measure](#); [scattering amplitude](#); [multiloop calculations](#)