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Nota di contenuto	Contents -- Preface -- On Jim Milgram's mathematical work -- A renormalized Riemann-Roch formula and the Thom isomorphism for the free loop space -- The 1-line of the K-theory Bousfield-Kan spectral sequence for $\text{Spin}(2n + 1)$ -- Homologically exotic free actions on products of S^m -- Surgery formulae for analytical invariants of manifolds -- On genus one mapping class groups, function spaces, and modular forms -- 1. Introduction -- 2. Statement of results -- 3. Recollections for $\text{SL}(2, \mathbb{Z})$ and modular forms -- 4. On the Koszul complex and $\text{SL}(2, \mathbb{Z})$ -modules.