

Sixty years of compactifications of \mathbf{C}^n

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Abstract:

In 1954, Hirzebruch posed the problem to classify analytic compactifications of \mathbf{C}^n of $b_2 = 1$. I shall give a survey on results obtained for this problem over the sixty years and then discuss the new direction initiated by Hassett-Tschinkel in 1999 on equivariant compactifications of \mathbf{C}^n . This is based on joint works with Jun-Muk Hwang.