The Hirzebruch χ_y-genus revisited

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Abstract: The Hirzebruch χ_y-genus was introduced by Hirzebruch in 1950s and can be computed topologically via the celebrated Hirzebruch-Riemannian-Roch Theorem. I will in this talk review several important features of this genus and some applications. Along this line some of my own works related to this topic are also presented.