1108-14-115   **Mihnea Popa*** (`mpopa@math.northwestern.edu`). *Recent results on holomorphic one-forms.*
I will describe a number of basic results on holomorphic one-forms on complex manifolds, ranging from the existence of zeros to numerical inequalities and invariance under derived equivalence. These results have only recently come to light due to progress in an area of algebraic geometry called generic vanishing theory, which I will briefly survey. (Received January 05, 2015)