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Peter R. Mercer* (mercpr@buffalostate.edu), Dept. Mathematics, S.U.N.Y College at Buffalo, 1300 Elmwood Avenue, Buffalo, NY 14222. *Refined Arithmetic, Geometric & Harmonic Mean Inequalities*. Preliminary report.

We obtain refinements of the Arithmetic, Geometric, and Harmonic Mean Inequalities. A main ingredient is Hadamard's Inequality. In an application, we obtain a refined version of Ky Fan's Inequality. (Received October 02, 2000)