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THE HIGHER DIMENSIONAL FROBENIUS PROBLEM

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Abstract of Report Talk: The classical Frobenius Problem is to determine the maximal integer g such that $v^T x = g$ has no solution. We will consider the problem of determining maximal vectors g such that the Diophantine system $Mx = g$ has no solution. We provide a variety of results: a reduction formula for M , bounds on g , and find g explicitly in several special cases. [AJ14114823]
[Joint work with Charles Chen, Olga Lepigina, Timur Nezhmetdinov, Matthew Richer, Laura Zirbel]

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