## Second order regularity for linear elliptic system with lower order terms

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I will present some recent results obtained in collaboration with G. Moscariello. We establish the higher differentiability of local solution u to linear elliptic systems of type

$$\operatorname{div}(A(x)Du) + b(x)u(x) = f$$
 in  $\Omega$ 

under a Sobolev Marcinkiewicz assumption on the matrix A(x). The novelty here is to consider a lower order term with coefficients  $b(x) \in L^{\frac{n}{2},\infty}$ .