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On the modularity of reducible mod l Galois representations

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In this talk, I'll give a modularity result for reducible mod l Galois representations. By analogy with the irreducible case, I'll state some questions regarding characterization and optimization of the different types of modular forms attached to such a given representation. Finally, I'll give an application of these results to the determination of an explicit lower bound for the highest degree of the coefficient fields of newforms of prime level and trivial Nebentypus. This is a joint work with Ricardo Menares.

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Classification de Session: Représentations galoisiennes et formes modulaires

Classification de thématique: Représentations galoisiennes et formes modulaires