MARIO EUDAVE, Instituto de Matemáticas, UNAM, Circuito Exterior, Ciudad Universitaria, 04510 México DF
Some examples of knots with interesting properties

In this talk we give some explicit examples of knots or links which give a positive answer to questions made by several people. First, for each odd number n, we find knots whose exterior contains a connected, orientable, incompressible surface with n boundary components, answering a question of F. Gonzalez-Acuña and A. Ramirez. Second, we construct knots whose exterior contains an incompressible torus with four boundary components, and a non-meridional slope; these examples are simpler that the ones given by the author some years ago, which answered a question made by J. Luecke. Third, for each rational number p/q, we find a link with two components $k_1 \cup k_2$, so that by doing p/q-Dehn surgery on k_1 gives a reducible manifold, answering a question of N. Sayari.