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On coincidence points of mappings of the torus into a surface

For an arbitrary pair of continuous maps (f, g) of the 2-torus T into an arbitrary surface S , the Wecken property for the coincidence problem is proved. This means that there exist homotopic maps f', g' such that each Nielsen class of coincidence points of (f', g') consists of one point and has a non-vanishing index. Moreover, every non-vanishing index is equal to ± 1 , and every non-vanishing semi-index of Jezierski is equal to 1, if S is neither the sphere nor the projective plane.

Joint work with S. Bogatyj and H. Zieschang.