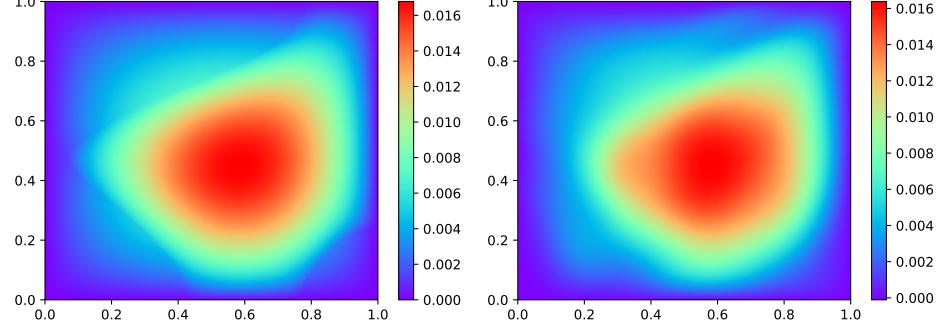case index = 917, rel err = 0.0484