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	authors	• BrÃ¼gger, Rahel • Harbrecht, Helmut • Tausch, Johannes	**authors**	• Martin Costabel	DUPLICATES	536
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	abstract	This article provides a functional analytical framework for boundary integral equations of the heat equation in time-dependent domains. More specifically, we consider a non-cylindrical domain in space-time that is the C 2 -diffeomorphic image of a cylinder, i.e., the tensor product of a time interval and a fixed domain in space. On the non-cylindrical domain, we introduce Sobolev spaces, trace lemmata and provide the mapping properties of the layer operators. Here it is critical that the Neumann trace requires a correction term for the normal velocity of the moving boundary. Therefore, one has to analyze the situation carefully	**abstract**			
	versions		**versions**			