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One more bang-bang theorem for smooth control systems of constant rank. (English. Russian original) [Zbl 0883.49010](#)

Russ. Acad. Sci., Dokl., Math. **50**, No. 1, 117-121 (1995); translation from *Dokl. Akad. Nauk, Ross. Akad. Nauk* **337**, No. 5, 567-569 (1994).

Nonlinear time-optimal control problems are investigated under the condition that the control domain is a convex polyhedron. Sufficient conditions ensuring that the time-optimal control is a bang-bang control, i.e., its only values are the vertices of the control domain, are presented.

Reviewer: [E.G.Al'brekht \(Ekaterinburg\)](#)

MSC:

[49J30](#) Existence of optimal solutions belonging to restricted classes (Lipschitz controls, bang-bang controls, etc.) [Cited in 2 Documents](#)

Keywords:

[nonlinear time-optimal control problems](#); [bang-bang control](#)