

WHEN DO KOOPMAN EMBEDDINGS EXIST? A USER’S GUIDE

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ABSTRACT. The following list gives precise references to those results relevant to existence of continuous (or smoother) one-to-one linearizing maps (and embeddings) from my presentation “When do Koopman embeddings exist?” at the workshop “Koopman Operator Theory: Fundamentals, Approximations, and Applications 2” delivered at Moise Palace in Cres, Croatia on Friday, September 12, 2025.

- **Slide 3:** Corollary 33 of [Mez21] and personal communication with Igor Mezić.
- **Slide 6:** Theorems 2.3, 2.5 and 2.6 and Remark on p. 47 of [LM13]; Propositions 2 and 3 of [KR21].
- **Slide 7:** Theorem 2 of [KS25].
- **Slide 8:** the first proposition is Proposition 1 of [KS25]. The second proposition is Theorem 10 of [Kva25]. The theorem is Theorem 1 of [Kva25].
- **Slide 10:** the first bulleted result is Corollary 6 of [KA24]. The second bulleted result is Corollary 3 of both [LOS23] and [LOS25].
- **Slide 12:** Theorem 1 of [AK23]. Footnote: [CFI83, Bel22a, Bel22b, BC23, KB24, KB25, HB25].
- **Slide 13:** Figure 1 of [AK23].
- **Slide 15:** Corollary 33 of [Mez21] and personal communication with Igor Mezić.
- **Slide 18:** Theorem 3 combined with Remark 3 of [KA24].
- **Slide 20:** Example 7 of [KA24].
- **Slide 21:** the theorem is a partial statement of Theorem 4 in [KA24].
- **Slide 22:** the theorem is a combination of Theorems 1 and 2 in [KA24].
- **Slide 23:** Figure 1 of [KA24].
- **Slide 24:** Corollaries 1 and 2 of [KA24].
- **Slide 25:** Proposition 1 of [KS25].

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