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This is the abstract of your article. It should not exceed 200 words and needs to be concise and factual. State the purpose of the research, the principal results, and conclusion.

complex systems | machine learning | ...

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1 Introduction

Use this AIMS template to prepare your tex file after your article is accepted by an AIMS journal. Read all information including that which is proceeded by a % sign. These are important instructions and explanations. Thank you for your cooperation.

2 Examples

2.1 A sample Theorem

Significance

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Author contributions:

Competing interests:

¹Co-first authors

²Corresponding author

Theorem 1. Content of your theorem.

Proof. To refer to equations in your article, use the commands: (1), (2) and (4). \square

2.2 A sample Lemma

Lemma 1. Content of your lemma.

Proof. Your proof statements.

2.3 A sample Remark

Remark 1. Content of your remark.

2.4 A sample Definition

Definition 1. Sample: Let ϕ_t be an Anosmia flow on a compact space V and $A \subset V$ a dense set. Say that the upper Lacunae exponents are $\frac{1}{2}$ -pinched on A if

$$\sup_{x \in A} \frac{\max\{|\bar{\lambda}| : \bar{\lambda} \text{ is a nonzero upper Lyapunov exponent at } x\}}{\min\{|\bar{\lambda}| : \bar{\lambda} \text{ is a nonzero upper Lyapunov exponent at } x\}} \leq 2. \quad (1)$$

2.5 A sample Proposition

Proposition 1. Content of your proposition.

2.6 A sample Corollary

Corollary 1. Content of your corollary.

2.7 A sample Assumption

Assumption 1. Content of your assumption.

2.8 Example of inserting a Figure



3 How to align the math formulas

Theorem 2. Content of your theorem.

In the proof below, we will to show you how to align the math formulas:

Proof of Theorem 2. Please refer to the following example to align your math formulas:

$$\begin{aligned} \theta_\varepsilon \wedge d\theta_\varepsilon^{n-1} &= (\theta_0 + \varepsilon\alpha) \wedge (d(\theta_0 + \varepsilon\alpha))^{n-1} \\ &= (\theta_0 + \varepsilon\alpha) \wedge (d\theta_0)^{n-1} + \theta_0 \wedge d\theta_0^{n-1} \\ &\quad - \varepsilon d(\alpha \wedge \theta_0 \wedge d\theta_0^{n-2}) \\ &\quad + \theta_0 \wedge d\theta_0^{n-1} + \varepsilon\alpha \wedge d\theta_0^{n-1} \\ &= \theta_0 \wedge d\theta_0^{n-1} - \varepsilon d(\alpha \wedge \theta_0 \wedge d\theta_0^{n-2}), \end{aligned} \quad (2)$$

It can also be aligned in the following way:

$$\begin{aligned} \theta_\varepsilon \wedge d\theta_\varepsilon^{n-1} &= (\theta_0 + \varepsilon\alpha) \wedge (d(\theta_0 + \varepsilon\alpha))^{n-1} \quad \text{since } d\alpha = 0 \\ &= (\theta_0 + \varepsilon\alpha) \wedge (d\theta_0)^{n-1} + \theta_0 \wedge d\theta_0^{n-1} \\ &\quad - \varepsilon d(\alpha \wedge \theta_0 \wedge d\theta_0^{n-2}) \\ &\quad + \theta_0 \wedge d\theta_0^{n-1} + \varepsilon\alpha \wedge d\theta_0^{n-1} \\ &= \theta_0 \wedge d\theta_0^{n-1} - \varepsilon d(\alpha \wedge \theta_0 \wedge d\theta_0^{n-2}), \end{aligned} \quad (3)$$

Here is another example for if the math expression in [] must be split to a new line:

$$\begin{aligned} \int_0^T |u_0(t)|^2 dt &\leq \delta^{-1} \left[\int_0^T (\beta(t) + \gamma(t)) dt \right. \\ &\quad \left. + T^{\frac{2(p-1)}{p}} \left(\int_0^T |\dot{u}_0(t)|^p dt \right)^{\frac{2}{p}} + T^{\frac{2(p-1)}{p}} \left(\int_0^T |\dot{u}_0(t)|^p dt \right)^{\frac{2}{p}} \right]. \end{aligned} \quad (4)$$

Please use `displaystyle` if your formulas fully occupy a paragraph and use `textstyle` for formulas among text.

For two equations:

$$\begin{aligned} A &= \theta_0 \wedge d\theta_0^{n-1} - \varepsilon d(\alpha \wedge \theta_0 \wedge d\theta_0^{n-2}) \\ B &= \theta_1 \wedge d\theta_1^{n-1} - \varepsilon d(\alpha \wedge \theta_1 \wedge d\theta_1^{n-2}) \end{aligned}$$

\square

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We would like to thank you for **following the instructions above** very closely. It will save us lot of time and expedite the process of your article's publication.

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