**COMAP 2024 临时论文共享**

**Team Control Number: 2415888**

**题目：A**

**1 Introduction**

* 1. **Problem Restatement (问题重述)**
  2. **Literature Review (可以把我们所寻找到的论文都用上)**

主要引用了以下论文：

* Nature 1961 Sex Composition of Lamprey populations
* Food of Larvel Sea Lamprey & American Brook Lamprey
* Crowding reduces feeding rate
* Assessing food and Nutritional Resources of Native and Invasive Lamprey Larvae using Natural Abundance Isotopes
* (用得最多的) Significance of organic detritus in the diet of larval lampreys in the Great Lake Basin

- Field study suggests that sex determination in sea lamprey is directly influenced by larval growth rate

**1.3暂时还不用写那么快**

**2 Assumptions and Justifications**

In order to simplify the model, we make the following assumptions:

……

**3 Notations**

**4 Model Establishment and Solutions**

**4.1 Model 1:**

**4.2 Model 2:**

**4.3 Model 3:**

**4.4 Discussions**

***p.s. 对4.4的简要解释：这一步和韬哥的不太一样，韬哥他们只是建立了模型，而我们是需要用我们所建立的模型进行相应的讨论，以解答题目中所需要讨论的问题，以及更多的延伸讨论。因而有Discussion这一步。***

**5 Sensitivity analysis**

***p.s. 对part 5的简要解释：Sensitivity analysis这一步是对其中某个model在一些较极端情况下的输入进行观察，以验证模型的robustness.***

**6 Evaluation of the model**

**6.1 Strengths**

**6.2 Weaknesses**

**Reference**

**Appendix**