

Méthodes topologiques en analyse non linéaire:développements récents -  
Conférence à la mémoire du Professeur Andrzej Granas  
4 - 8 juillet 2022

Topological Methods in Nonlinear Analysis: Recent Advances - Conference  
in memory of Professor Andrzej Granas  
July 4 - 8, 2022

**Wenyang Feng**  
(Trent University)

**A generalization of the compression cone method for integral  
operators with changing sign kernel functions**

---

We introduce a new class of order cones in the space of continuous functions. The result unifies some previous work in studying the existence of solutions for differential equations using the compression cone techniques and fixed point theorems. It is shown that the method is more adaptable, particularly in dealing with changing sign Green's functions.