

On w-unicoherence, top-irreducibility and n -cells at the top

HUGO VILLANUEVA*

Universidad de las Américas Puebla

`hugo.villanueva@udlap.mx`

Given a metric continuum X , we consider the collection of all subcontinua of X , denoted by $C(X)$. It is well known that X has a special position as an element of $C(X)$ and many local properties of it have been studied. In this talk we introduce the concepts of w-unicoherence and top-irreducibility and we study the relations between these and the more naturally-related and well-known properties of continua, and with the concepts of pseudo-linearity and pseudo-circularity. Moreover, using these new concepts, we obtain a new characterization for continua having a positive Whitney level that is an arc or a simple closed curve. Moreover, given any positive integer n , we provide a class of continua X which have the property that X has a neighborhood in $C(X)$ which is an n -cell.

References

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