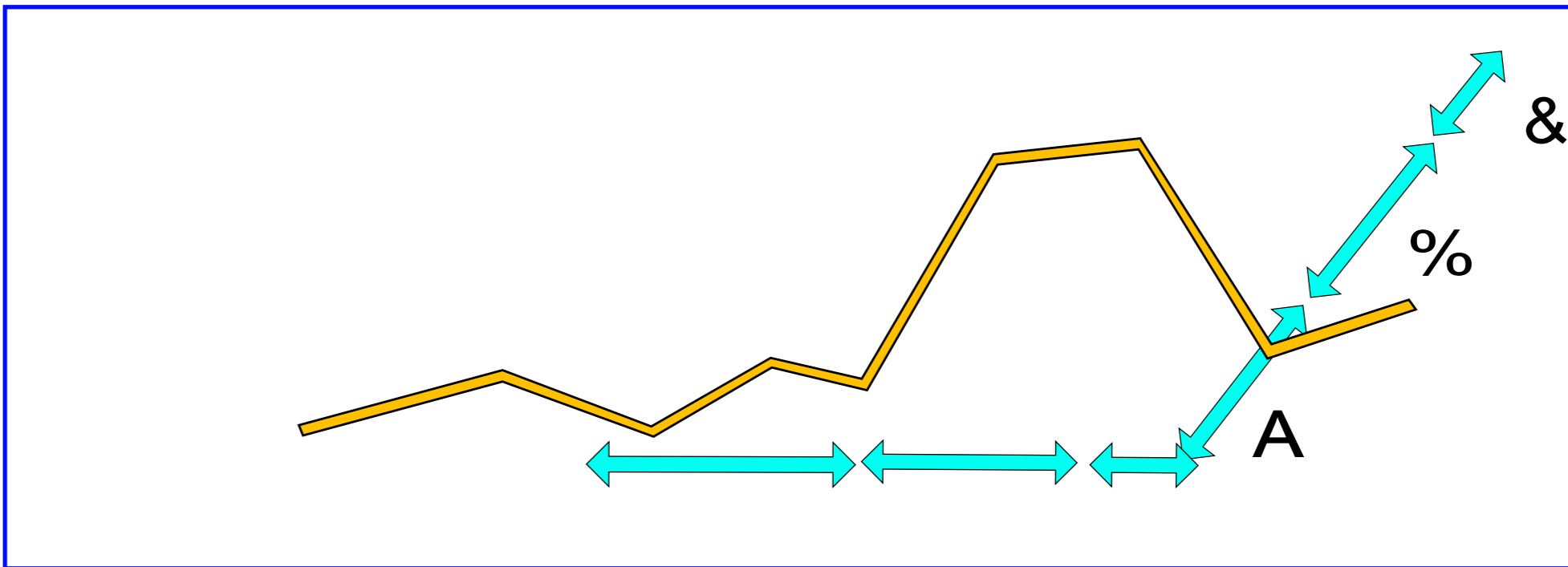
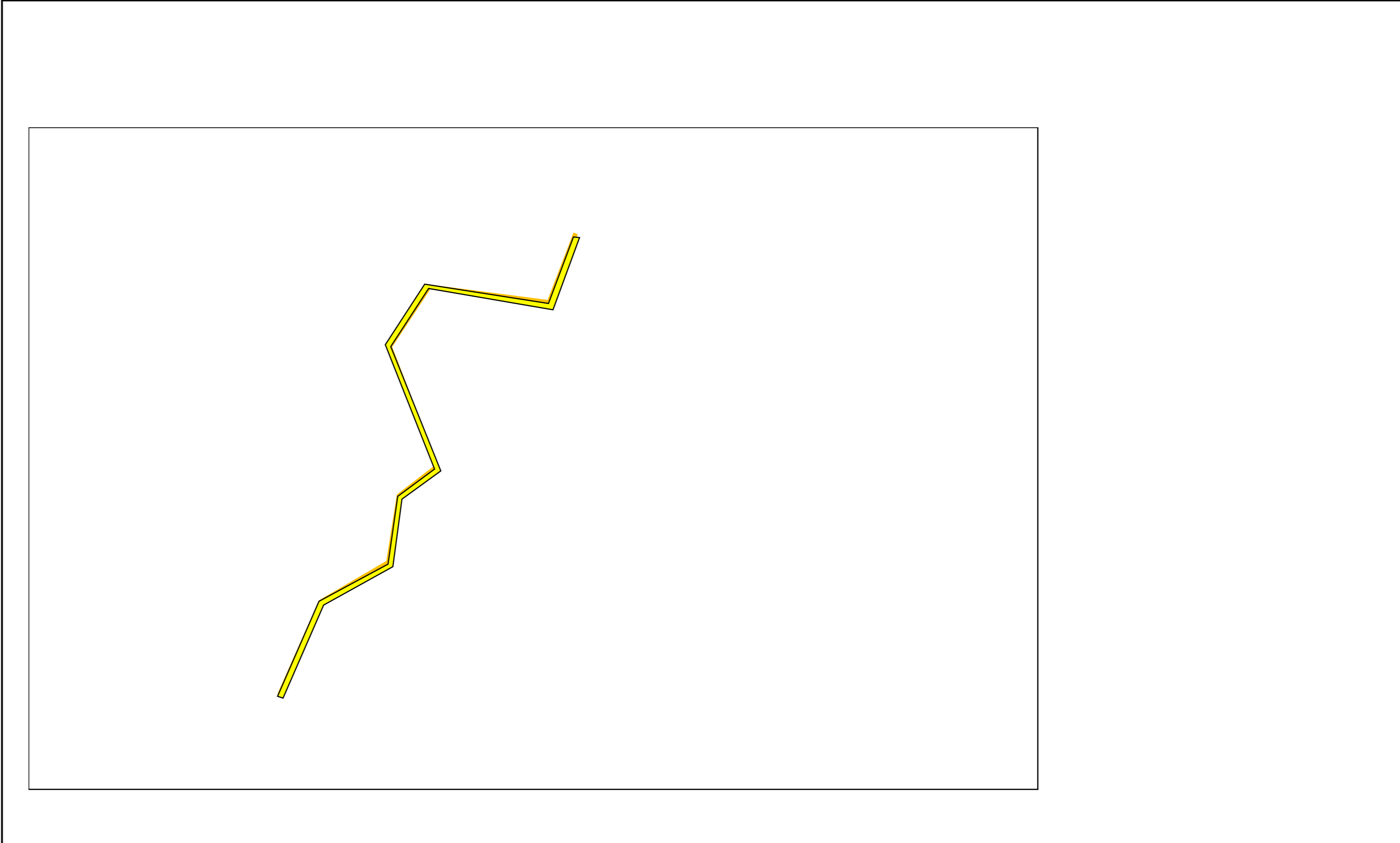


William Stroud Abstract

\$EVWUDFW

7KH SDUDEPHQWKH \*XWHQEHUJ 5LFKWHU UHODWLRQWKHPLO,DKMFRWRH SDUDPHWHU  
,LGD UHODWLRQ LV XVHG WR GHVFULEH WKH UHODWLRQVKLS EHWZHHQ WKH PDJQLWXGH DQG WRWDO QXPEHU RU HDUWKTXDNHV  
RIDW OHDVW WKDW PDJQLWXGH LQ DJLYHQ HDUWKTXDNHV SRISXODWRQ 7KH YDOXH RI





&RQFOXVLRQV

7K# YDOXH LV D XVHIXO SDUDPHWHU WR GHWH  
SRSXODWLRQ RI VHLVPLF HYHQWV EHFDXVH L  
DERXW WKH QDWXUH RI WKH DVVRFLDWHG UR  
&KDUDFWHUL]DWLRQ RI WKH VW\OH RI WKH GL  
FDQ EH XVHG WR SUHGLFW KRZ IUHTXHQWO\ H  
SDUWLFXODU WR HVWLPDWH WKH OLNHOLKR  
ODUJH DQG SRWHQWLDOO\ GDPDJLQJ HDUWK

7DNLQJLQ WR FRQVLGHUDWLRQ WKH SUHYLR  
VW\OH VKRZV WKDEYDOLHJ DWLQRH RU GHSW  
ORFDWLRQ FDQ OHDG WR DPELJRXV LQWHUS  
SURYLGHV RQO\ D SDUW RI WKH VWRU\

7KLV ZRUN VXJJHVVV WKDW WEYDOLHJ DWLQRH  
PRGH RI URFN IDLOXUH WKDW JHQHUDWH WKH  
LQAXHQFH RQ WKH E YDOXH LOOXVWUDWLQJ  
JHRORJLFDOO\ EDVHG H[SODQDWH RQ KLUGLI  
DOWHUQDWLYH H[SODQDWH RQ IRU WKH E YDO  
TXDQWL\ WKH QDWXUH RI IDXOW DQG IUDFWX