

# Graphics Eger Paper

Leon Hammerla

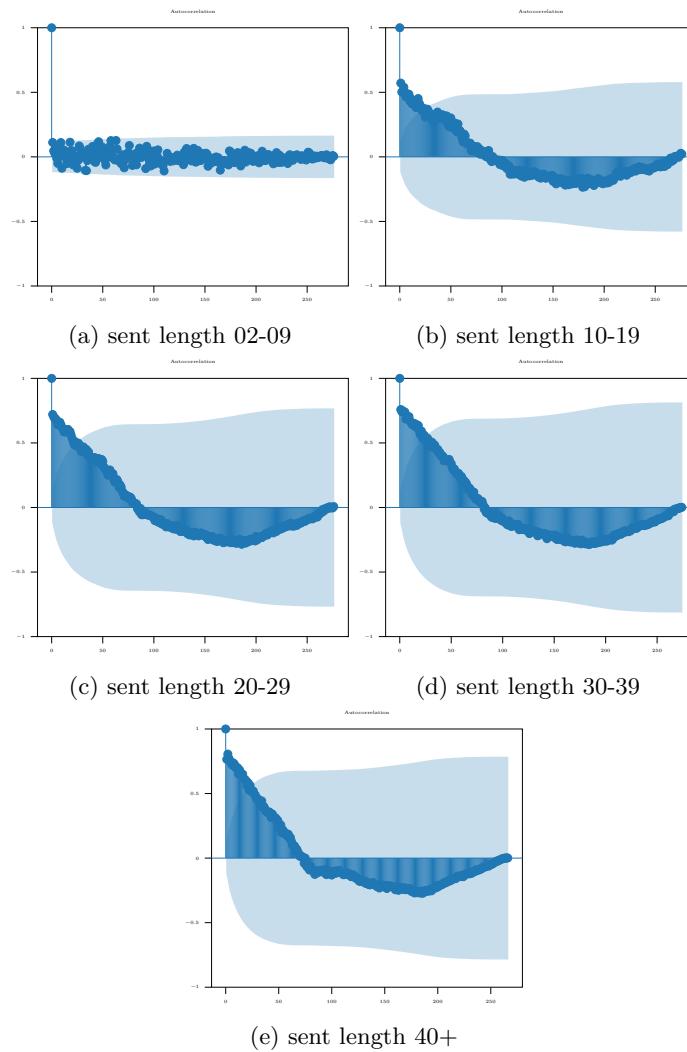
February 7, 2022

## **Contents**

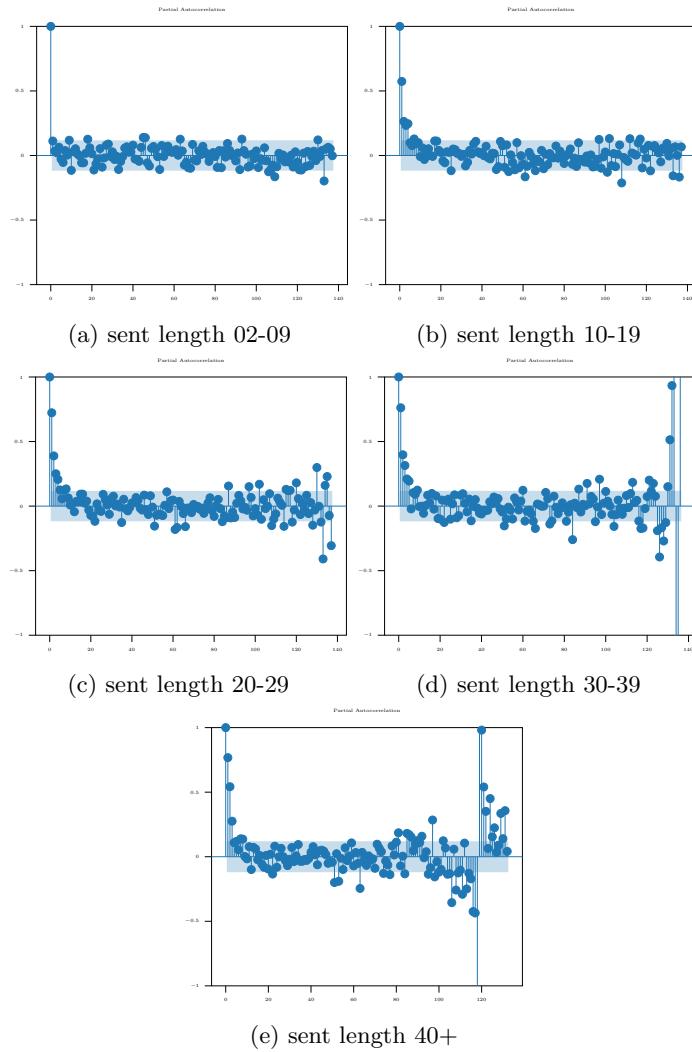
# 1 sent-Based:

## 1.1 n verbs0

### 1.1.1 Statistics-acf



### 1.1.2 Statistics-pacf

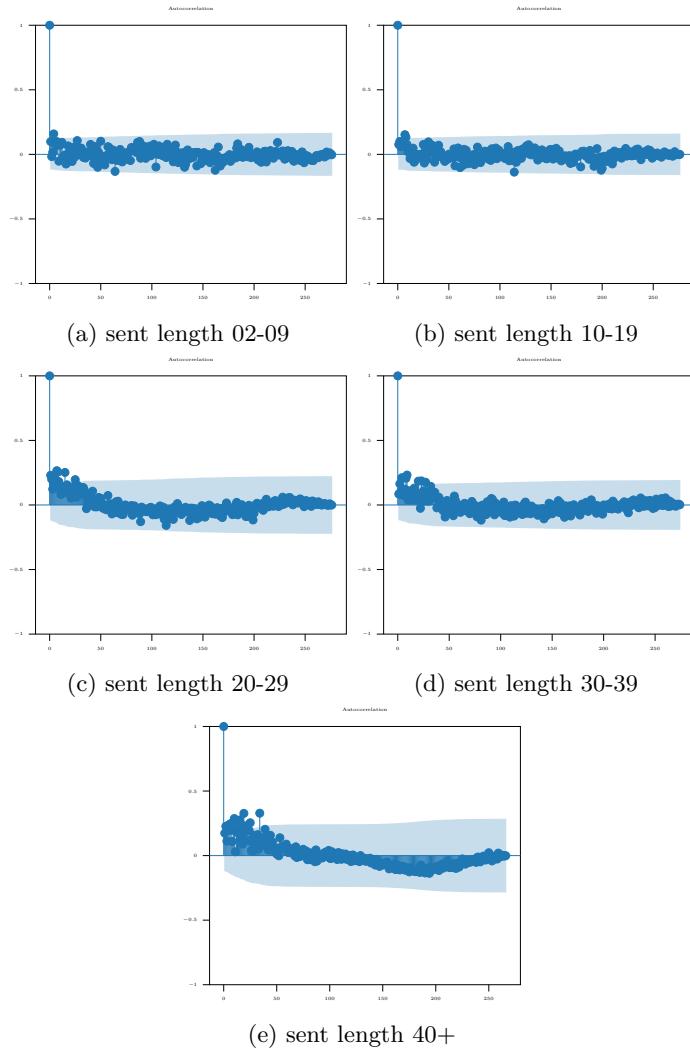


### **1.1.3 Statistics-cor**

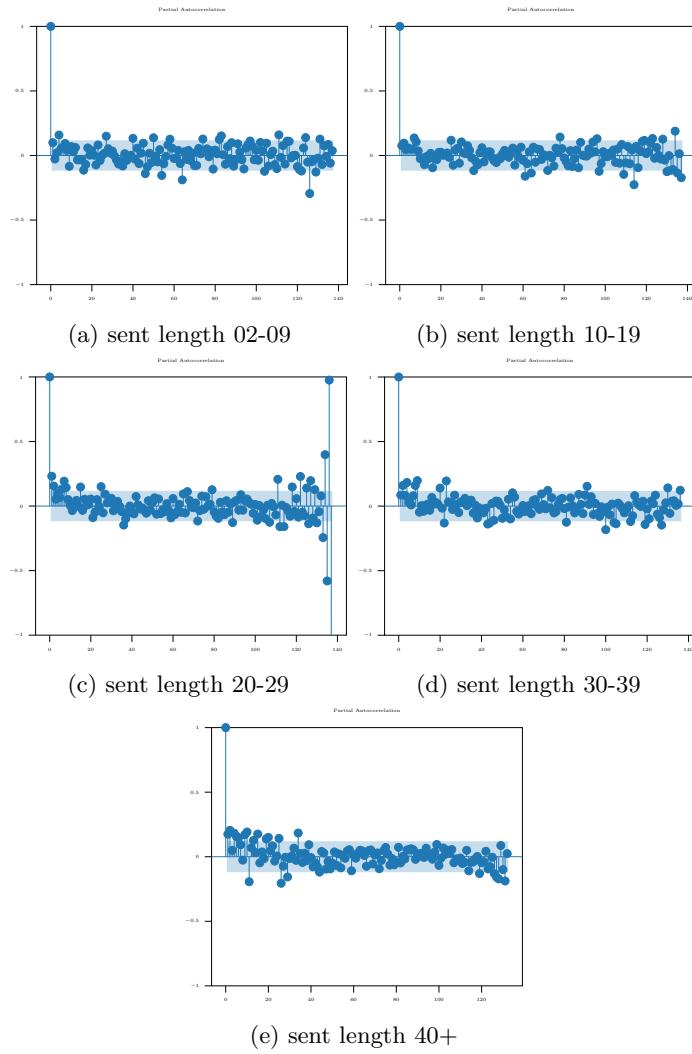
sent length 02-09 - Correlation: -0.15632108736362915  
sent length 10-19 - Correlation: 0.644388459528712  
sent length 20-29 - Correlation: 0.74347620520971  
sent length 30-39 - Correlation: 0.7666684821598184  
sent length 40+ - Correlation: 0.7280756234748924

## 1.2 complexity ratio1

### 1.2.1 Statistics-acf



### 1.2.2 Statistics-pacf

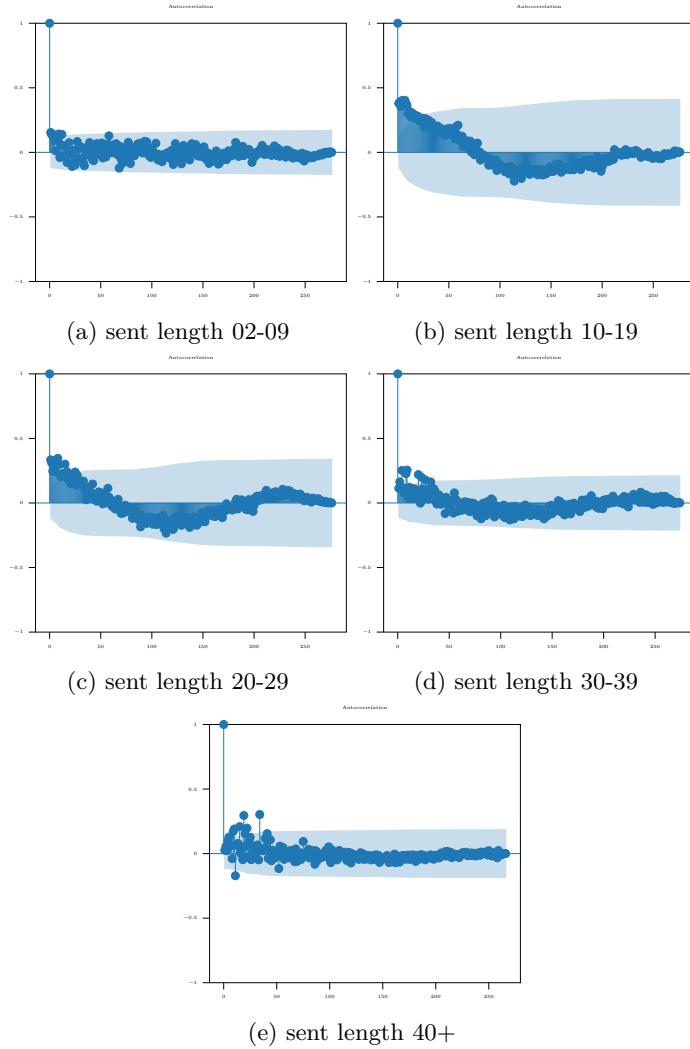


### **1.2.3 Statistics-cor**

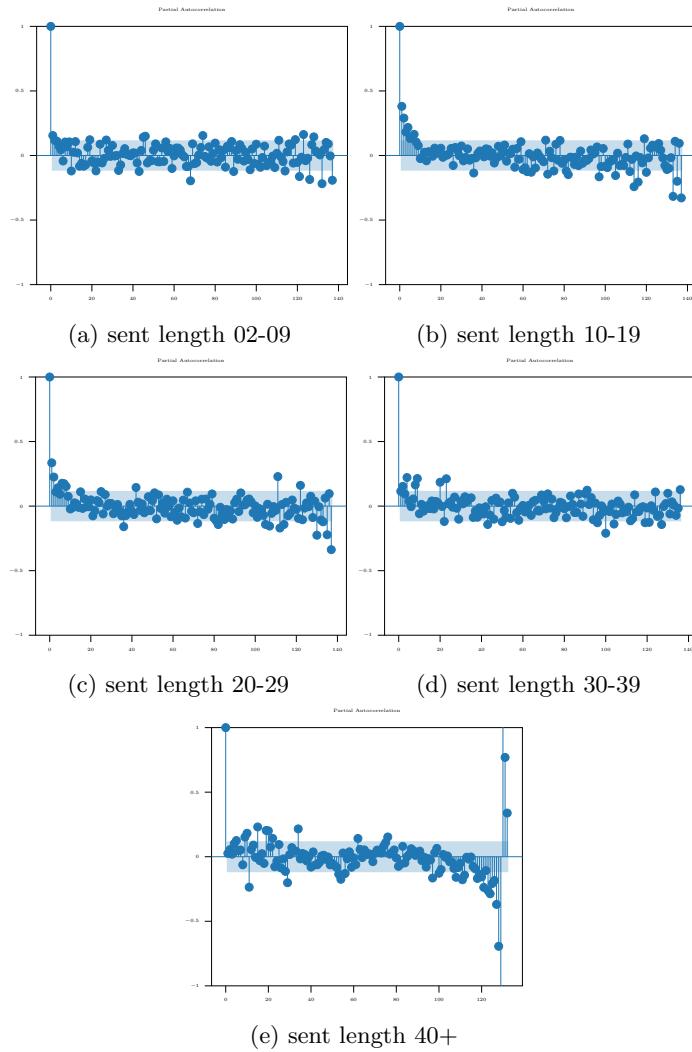
sent length 02-09 - Correlation: 0.18768257552970583  
sent length 10-19 - Correlation: -0.1410669281166046  
sent length 20-29 - Correlation: -0.19198705777444808  
sent length 30-39 - Correlation: -0.1847707880166812  
sent length 40+ - Correlation: -0.4448031883262873

## 1.3 absolute complexity2

### 1.3.1 Statistics-acf



### 1.3.2 Statistics-pacf

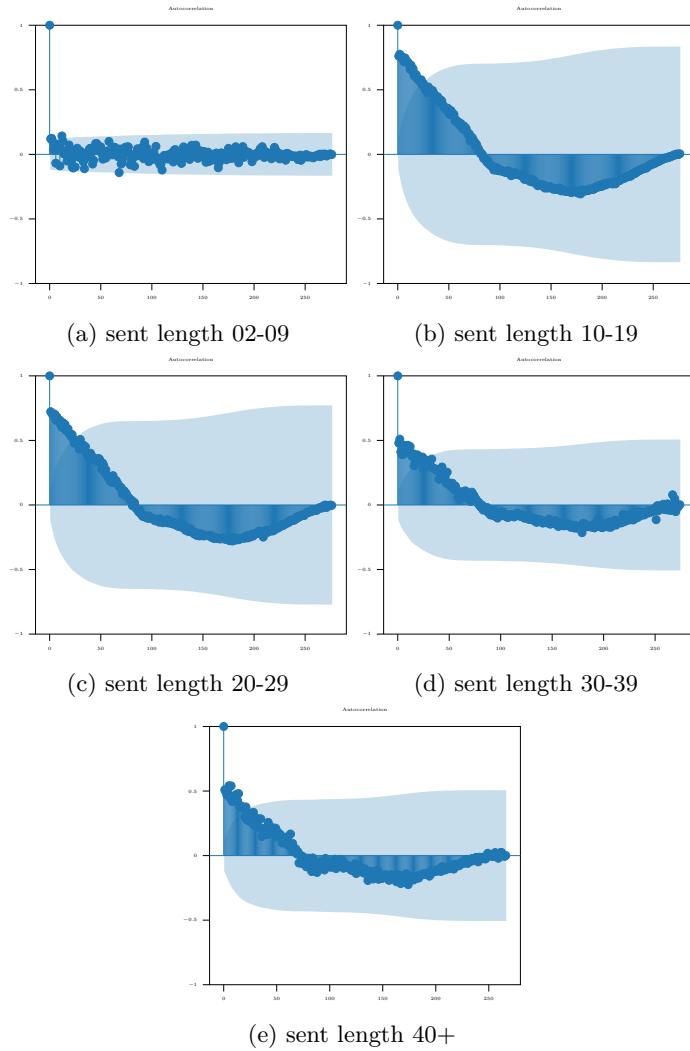


### **1.3.3 Statistics-cor**

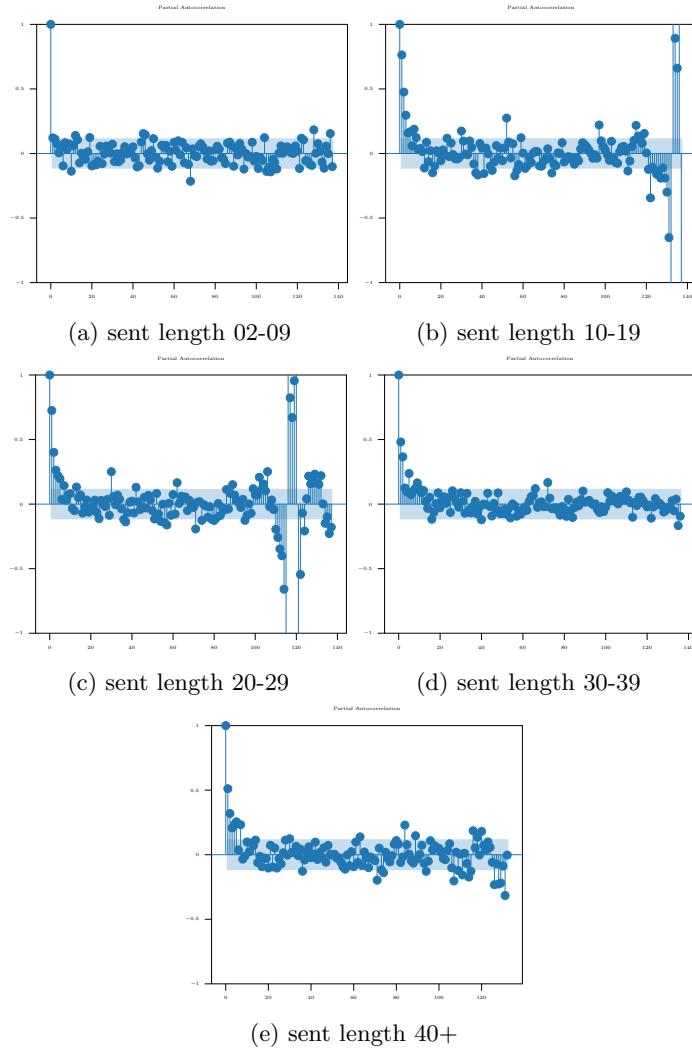
sent length 02-09 - Correlation: 0.21419788439072582  
sent length 10-19 - Correlation: 0.44857233657036194  
sent length 20-29 - Correlation: 0.10249653514761435  
sent length 30-39 - Correlation: -0.06817602275977415  
sent length 40+ - Correlation: -0.22557543364947832

## 1.4 order of tree3

### 1.4.1 Statistics-acf



### 1.4.2 Statistics-pacf

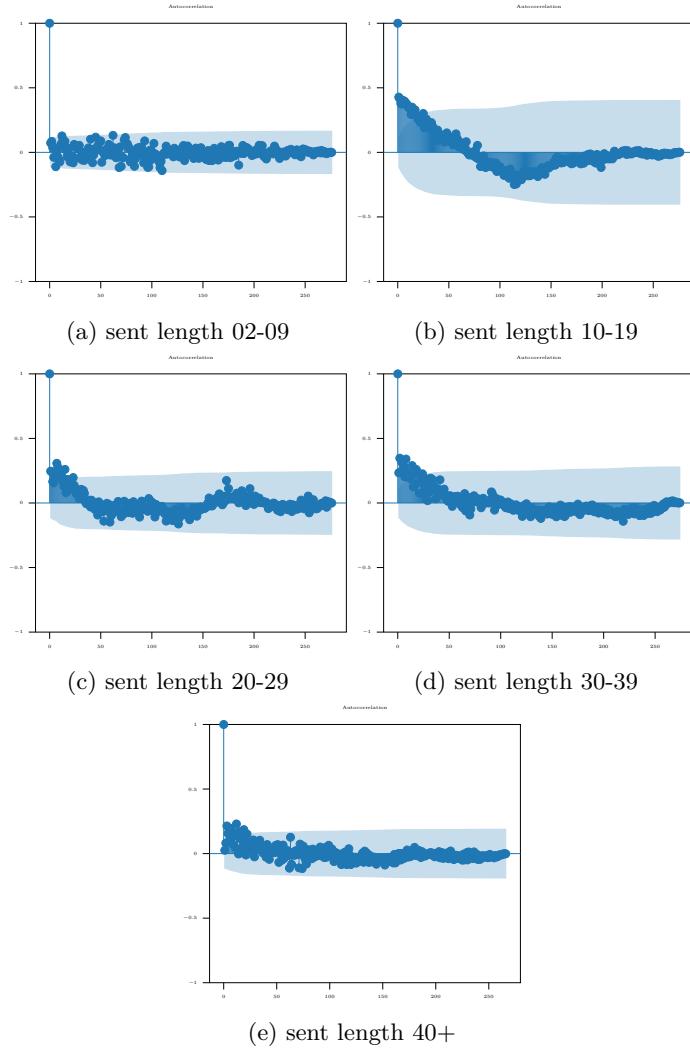


#### **1.4.3 Statistics-cor**

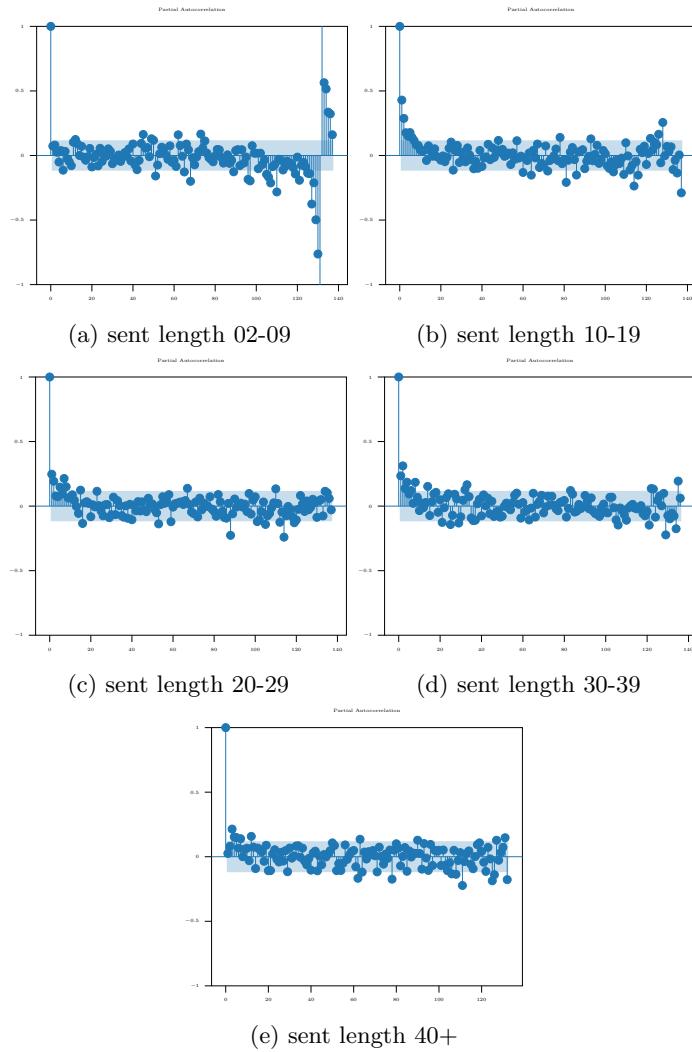
sent length 02-09 - Correlation: 0.1592818619252315  
sent length 10-19 - Correlation: 0.7545187406545583  
sent length 20-29 - Correlation: 0.7316513758686265  
sent length 30-39 - Correlation: 0.5844008463318633  
sent length 40+ - Correlation: 0.5477897946752102

## 1.5 dependency index4

### 1.5.1 Statistics-acf



### 1.5.2 Statistics-pacf

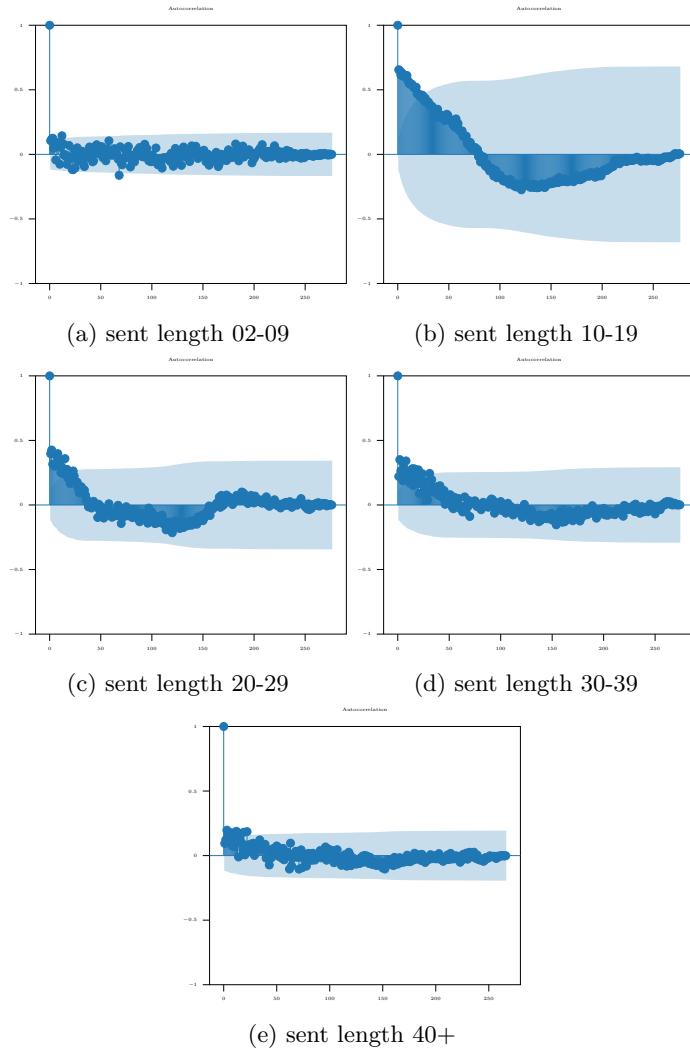


### **1.5.3 Statistics-cor**

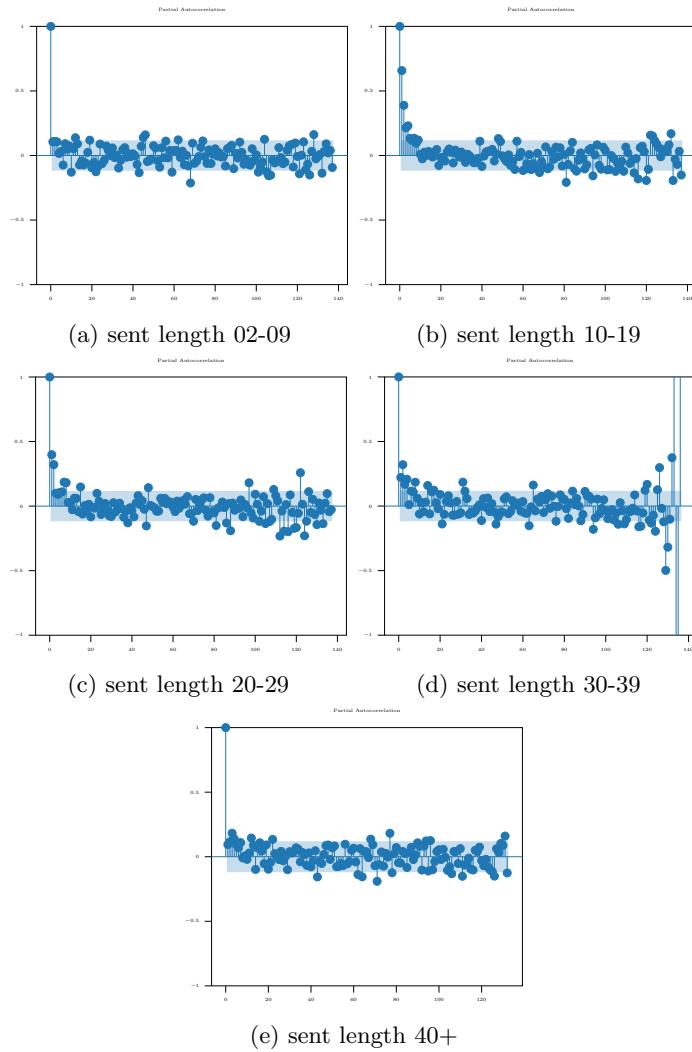
sent length 02-09 - Correlation: -0.07774876644222867  
sent length 10-19 - Correlation: -0.3917974471117587  
sent length 20-29 - Correlation: 0.23012371068963225  
sent length 30-39 - Correlation: 0.4289680057723363  
sent length 40+ - Correlation: 0.2741482343437879

## 1.6 stratum of tree5

### 1.6.1 Statistics-acf



### 1.6.2 Statistics-pacf

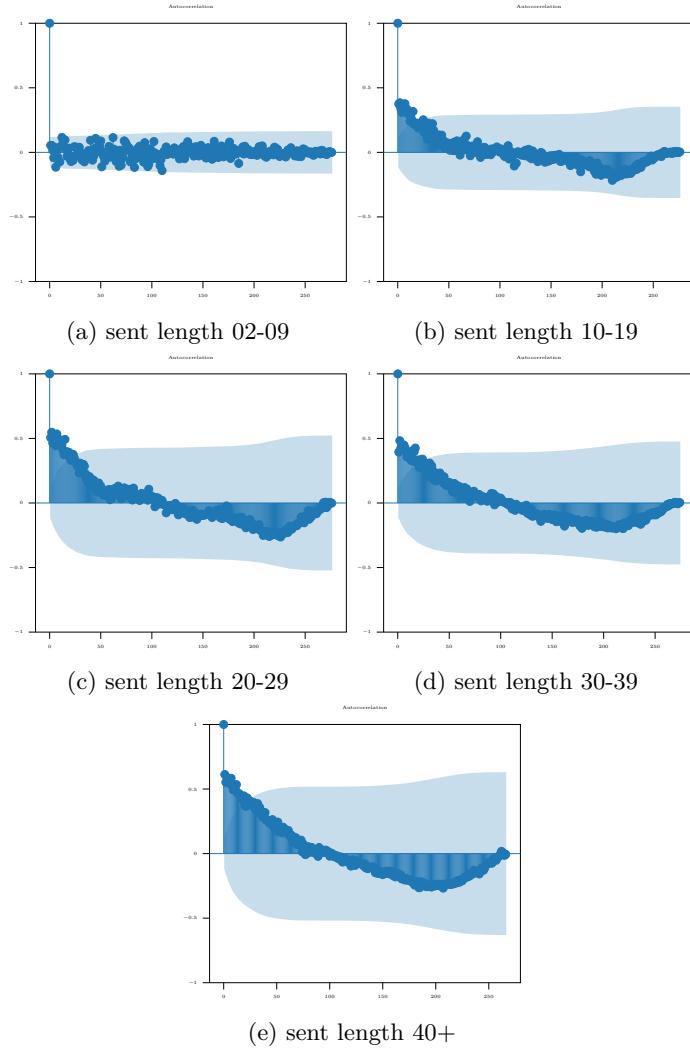


### **1.6.3 Statistics-cor**

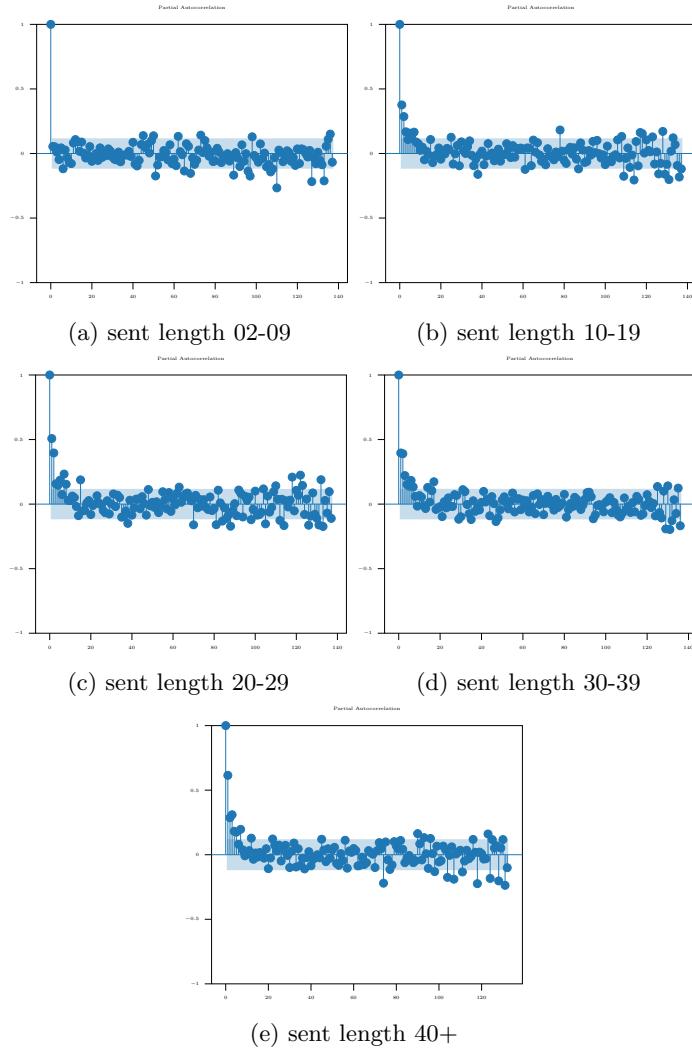
sent length 02-09 - Correlation: -0.08698210589100358  
sent length 10-19 - Correlation: -0.6029009794348282  
sent length 20-29 - Correlation: 0.18104597971206185  
sent length 30-39 - Correlation: 0.3863495421777595  
sent length 40+ - Correlation: 0.27615561735367866

## 1.7 depth of tree6

### 1.7.1 Statistics-acf



### 1.7.2 Statistics-pacf

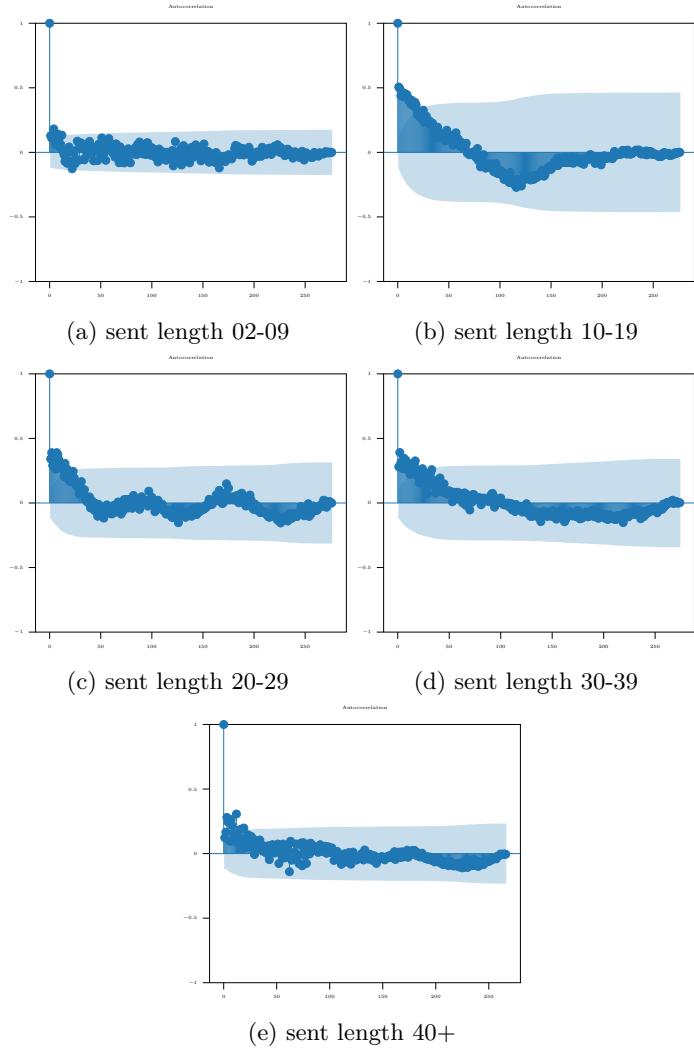


### **1.7.3 Statistics-cor**

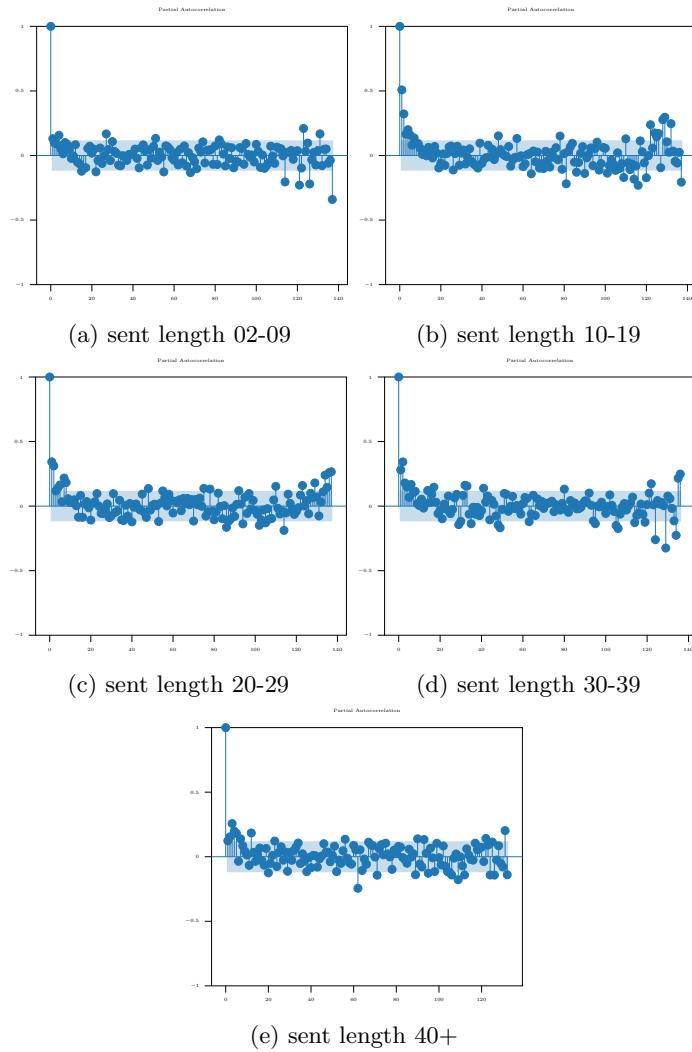
sent length 02-09 - Correlation: 0.028666351383844706  
sent length 10-19 - Correlation: 0.5172843910672198  
sent length 20-29 - Correlation: 0.6761170957116264  
sent length 30-39 - Correlation: 0.6236644485112122  
sent length 40+ - Correlation: 0.7344640255877116

## 1.8 ratio vertices on lp from rt7

### 1.8.1 Statistics-acf



### 1.8.2 Statistics-pacf

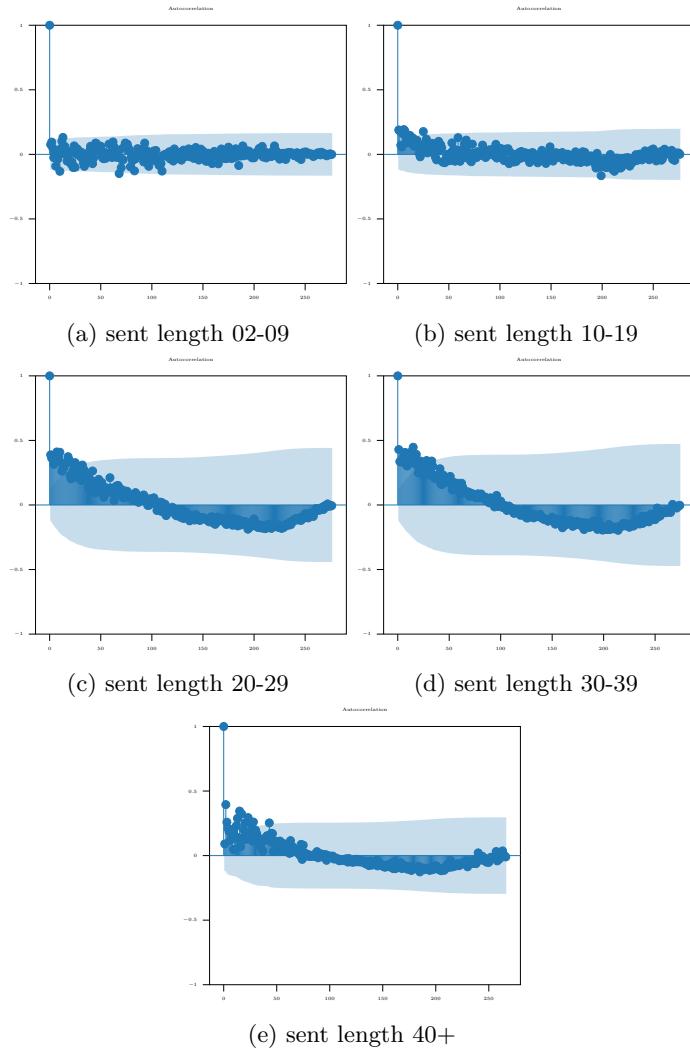


### **1.8.3 Statistics-cor**

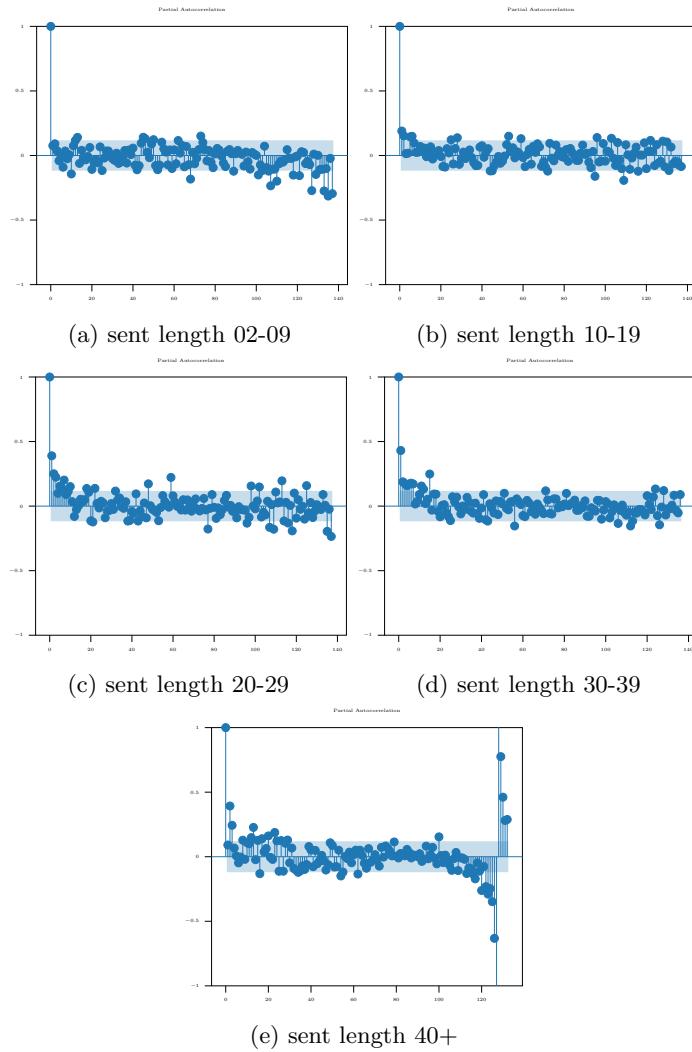
sent length 02-09 - Correlation: -0.193871157128286  
sent length 10-19 - Correlation: -0.4132835425471333  
sent length 20-29 - Correlation: 0.4105548768260121  
sent length 30-39 - Correlation: 0.4965092511063406  
sent length 40+ - Correlation: 0.40343812165206916

## 1.9 leaf distance entropy8

### 1.9.1 Statistics-acf



### 1.9.2 Statistics-pacf

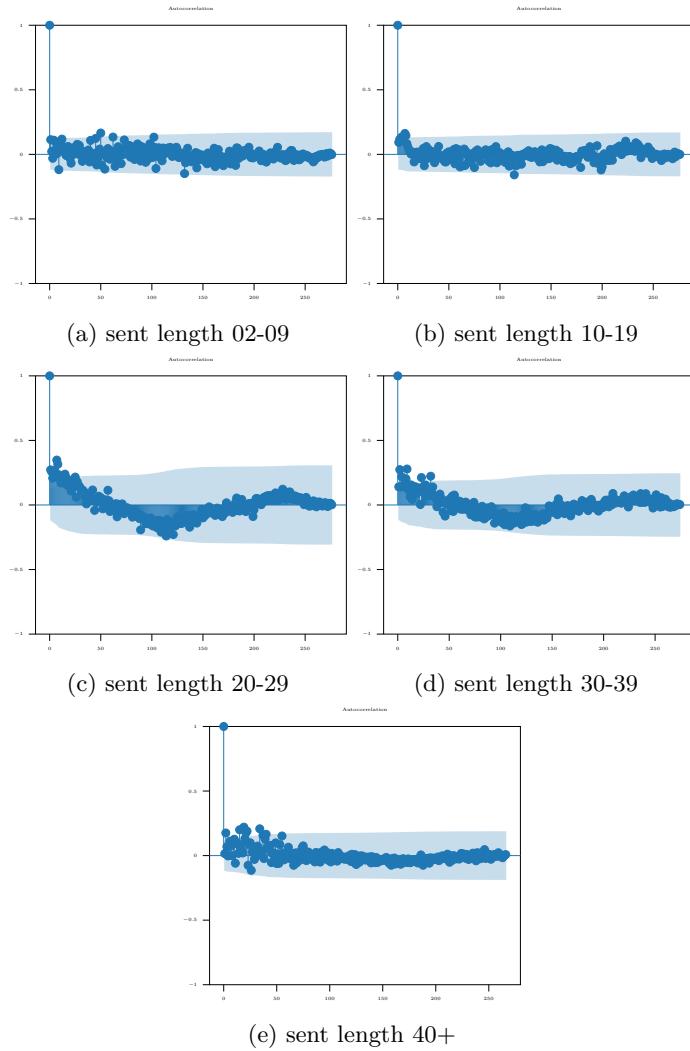


### **1.9.3 Statistics-cor**

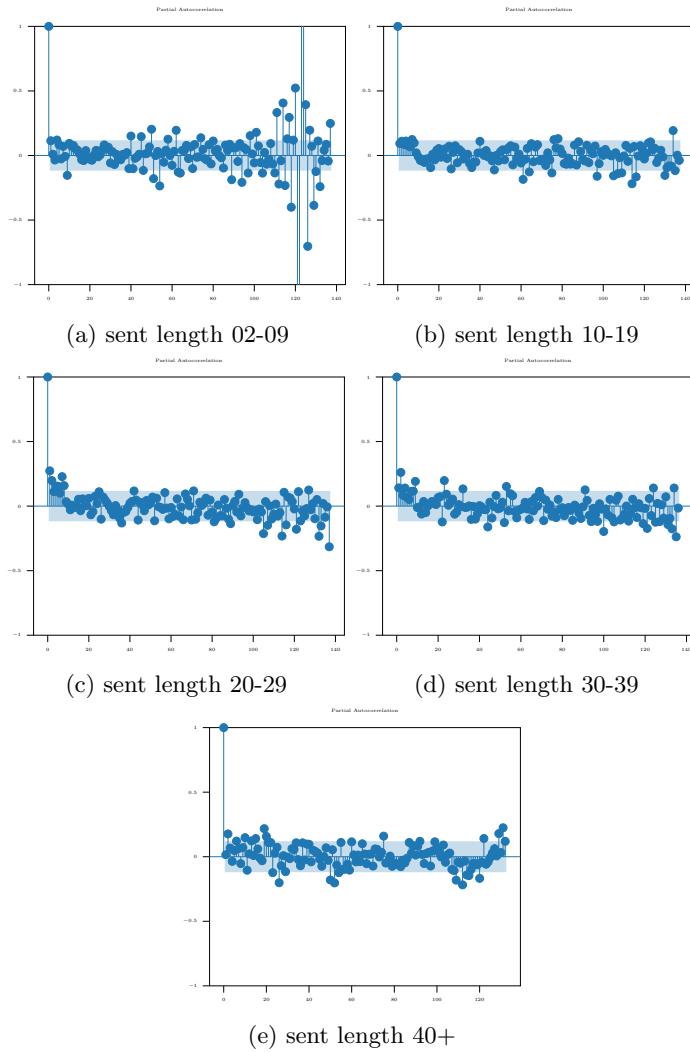
sent length 02-09 - Correlation: 0.0006187002420896522  
sent length 10-19 - Correlation: 0.30049144970884506  
sent length 20-29 - Correlation: 0.6117089689517449  
sent length 30-39 - Correlation: 0.629996417732554  
sent length 40+ - Correlation: 0.4562975579401305

## 1.10 ratio of leafs at d1 to rt9

### 1.10.1 Statistics-acf



### 1.10.2 Statistics-pacf

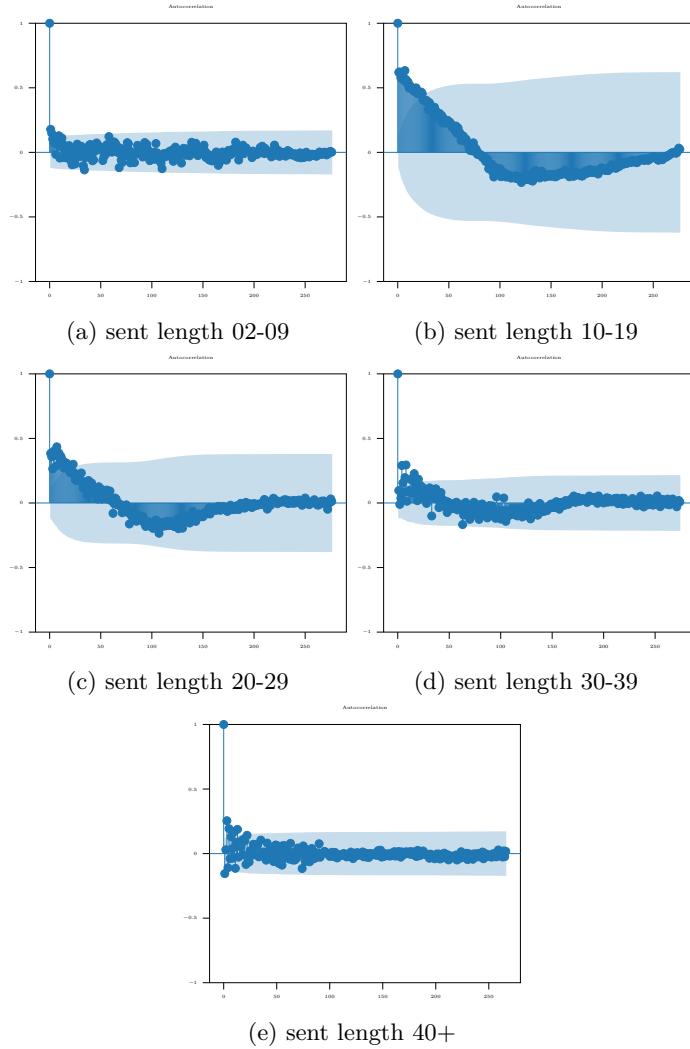


### **1.10.3 Statistics-cor**

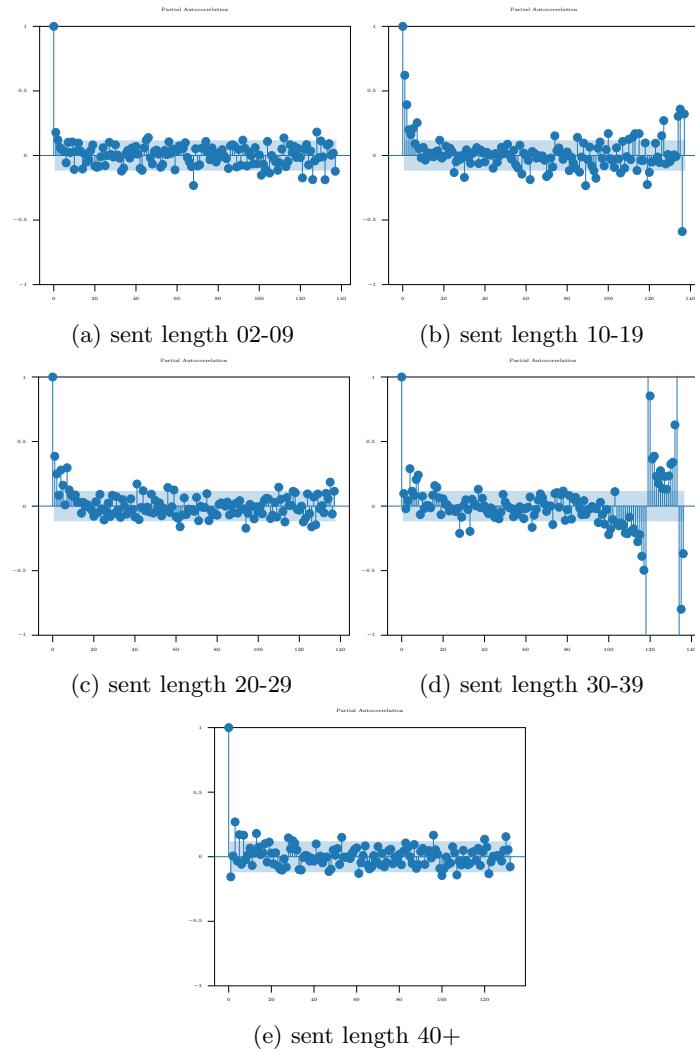
sent length 02-09 - Correlation: 0.21527959166273963  
sent length 10-19 - Correlation: 0.014451021807503546  
sent length 20-29 - Correlation: 0.03385778025043673  
sent length 30-39 - Correlation: 0.04309893726108203  
sent length 40+ - Correlation: -0.25009814673858444

## 1.11 mean dependency distance10

### 1.11.1 Statistics-acf



### 1.11.2 Statistics-pacf

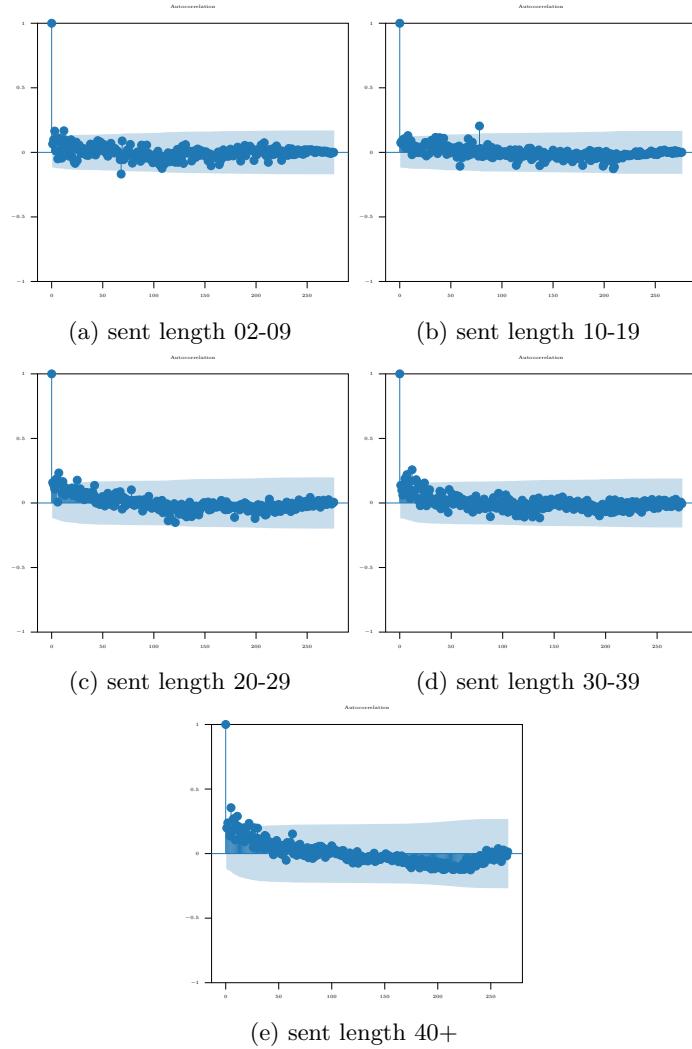


### **1.11.3 Statistics-cor**

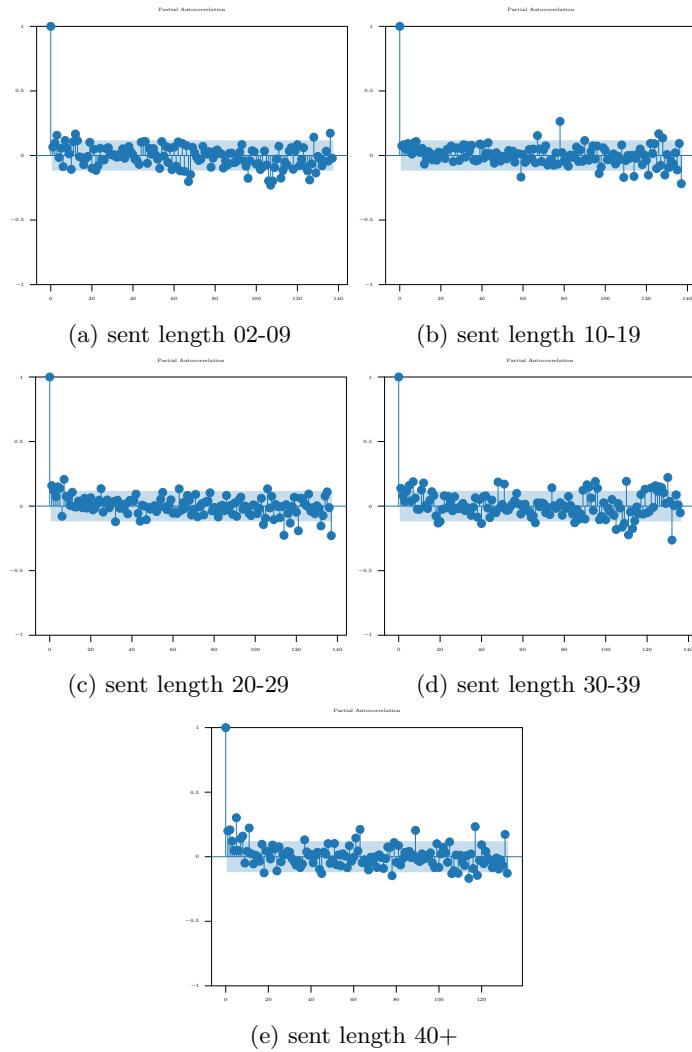
sent length 02-09 - Correlation: 0.17542022250245484  
sent length 10-19 - Correlation: 0.5976435191124854  
sent length 20-29 - Correlation: 0.3070131096742414  
sent length 30-39 - Correlation: -0.02431359762966113  
sent length 40+ - Correlation: -0.21535387439146658

## 1.12 dependency distance entropy11

### 1.12.1 Statistics-acf



### 1.12.2 Statistics-pacf

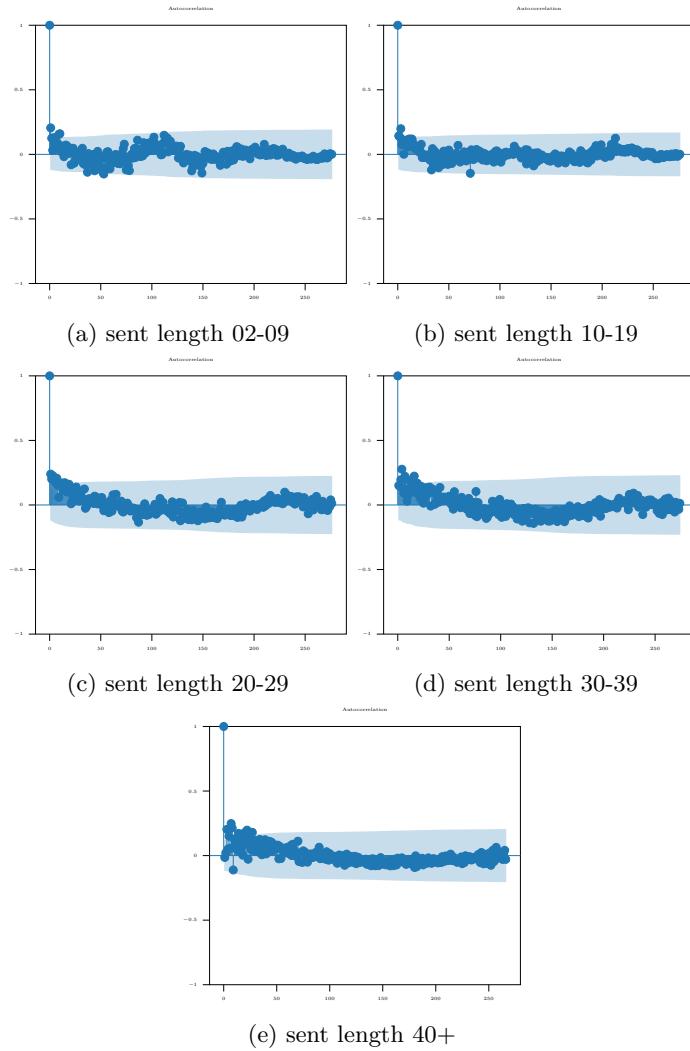


### **1.12.3 Statistics-cor**

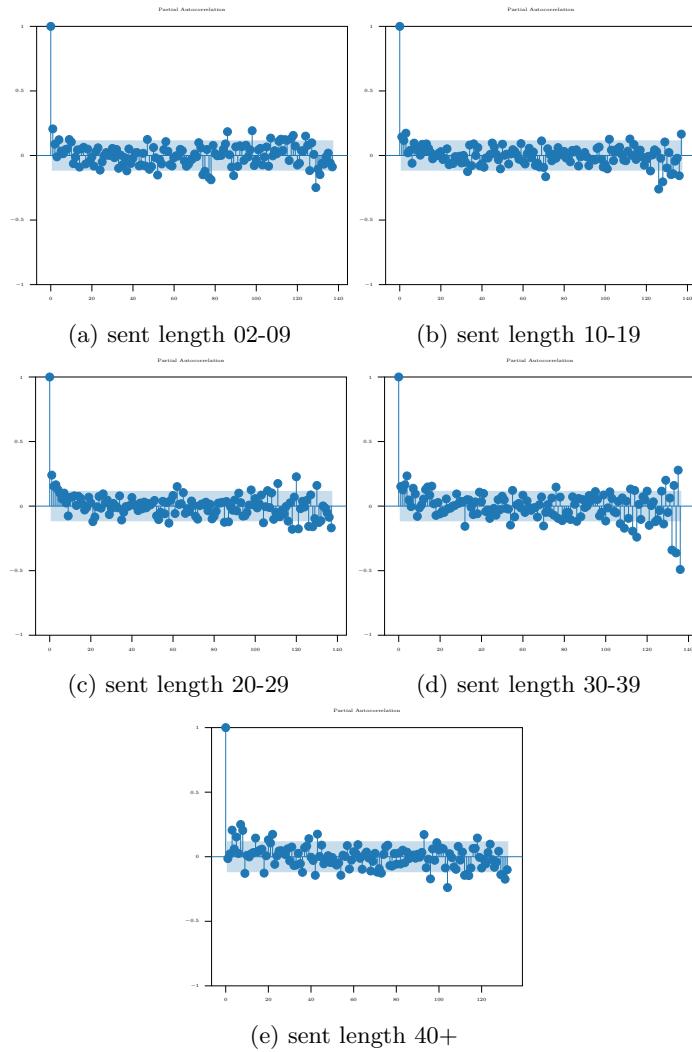
sent length 02-09 - Correlation: -0.08856748824014145  
sent length 10-19 - Correlation: -0.24468217280255683  
sent length 20-29 - Correlation: -0.2989017487179802  
sent length 30-39 - Correlation: -0.26698466815992394  
sent length 40+ - Correlation: -0.4491990604309709

## 1.13 ratio arcs adjacent tokens12

### 1.13.1 Statistics-acf



### 1.13.2 Statistics-pacf

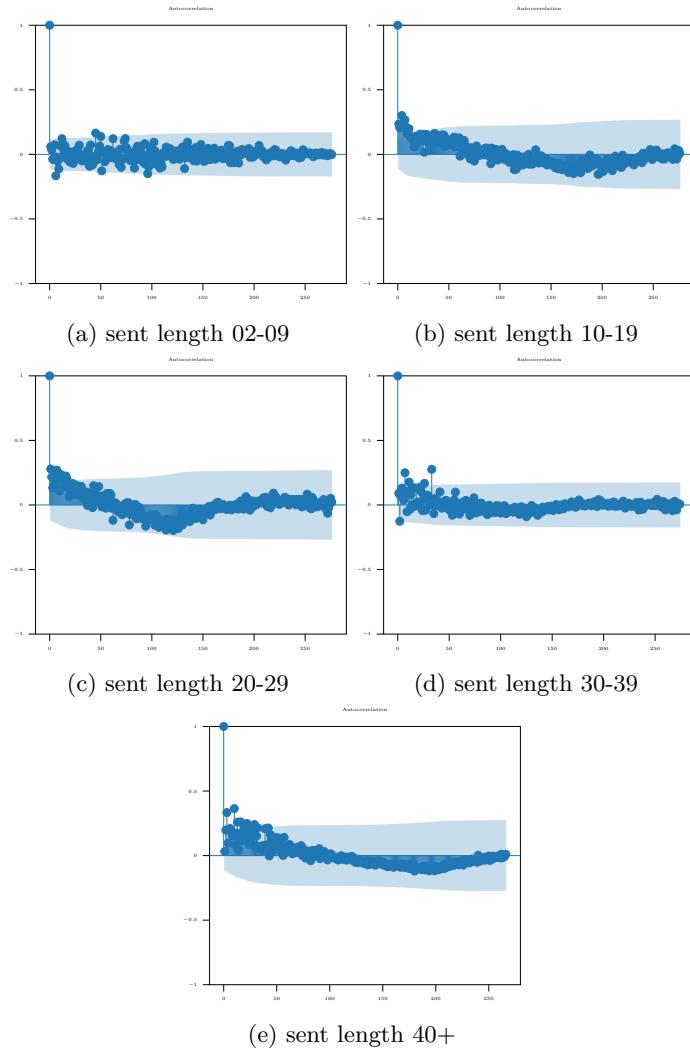


### **1.13.3 Statistics-cor**

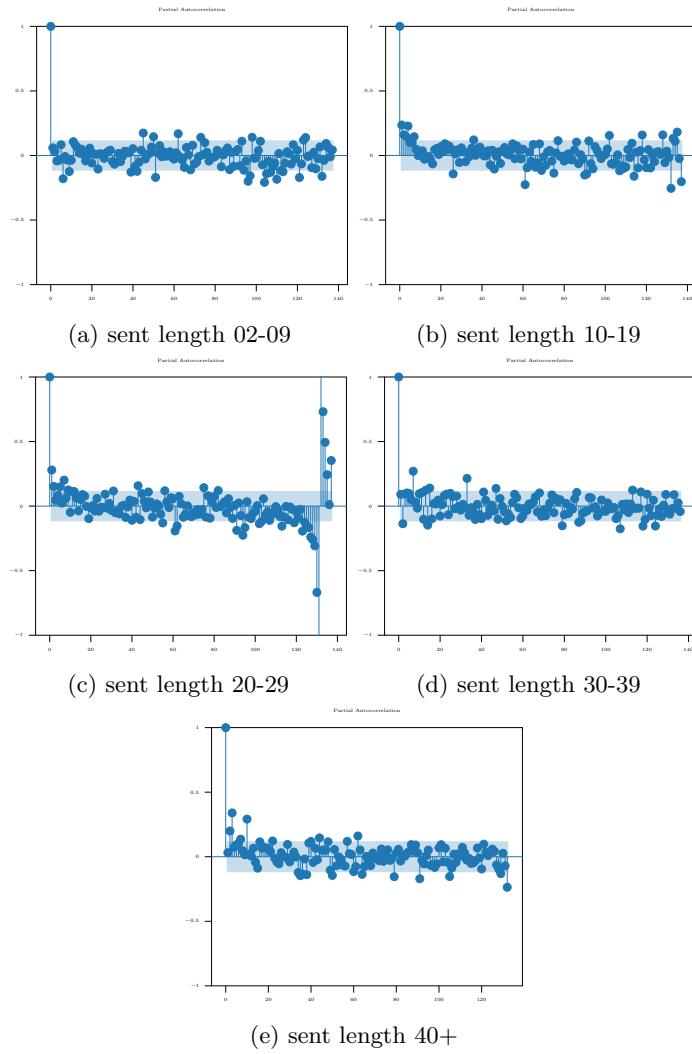
sent length 02-09 - Correlation: -0.14956771190485726  
sent length 10-19 - Correlation: -0.06234519724369135  
sent length 20-29 - Correlation: 0.1864528447919467  
sent length 30-39 - Correlation: 0.23408921432928104  
sent length 40+ - Correlation: 0.32237215469139496

## 1.14 ratio arcs distances occ once13

### 1.14.1 Statistics-acf



### 1.14.2 Statistics-pacf

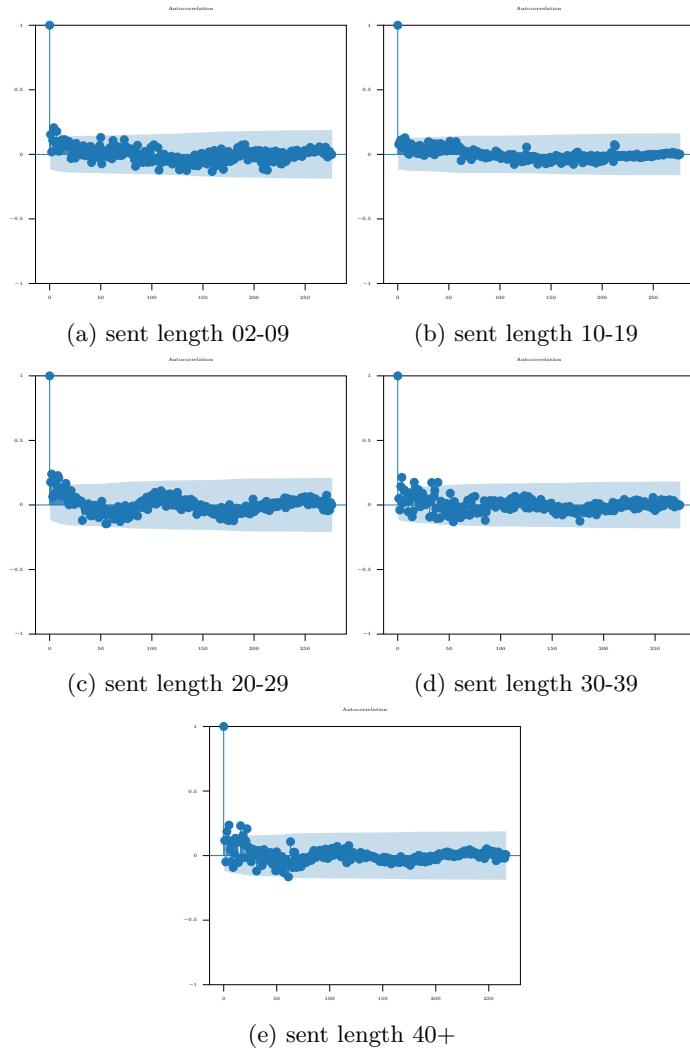


### **1.14.3 Statistics-cor**

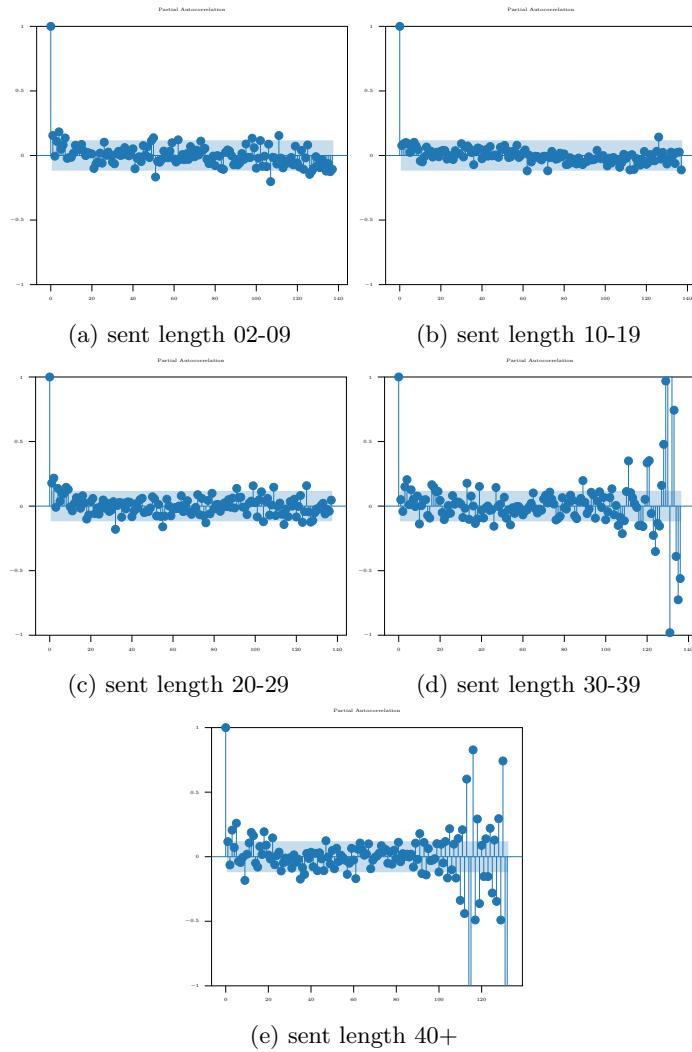
sent length 02-09 - Correlation: 0.03303337957232435  
sent length 10-19 - Correlation: -0.3980385577835271  
sent length 20-29 - Correlation: -0.12435265556192225  
sent length 30-39 - Correlation: -0.12840602765857126  
sent length 40+ - Correlation: -0.4382772844905302

## 1.15 imbalance index14

### 1.15.1 Statistics-acf



### 1.15.2 Statistics-pacf

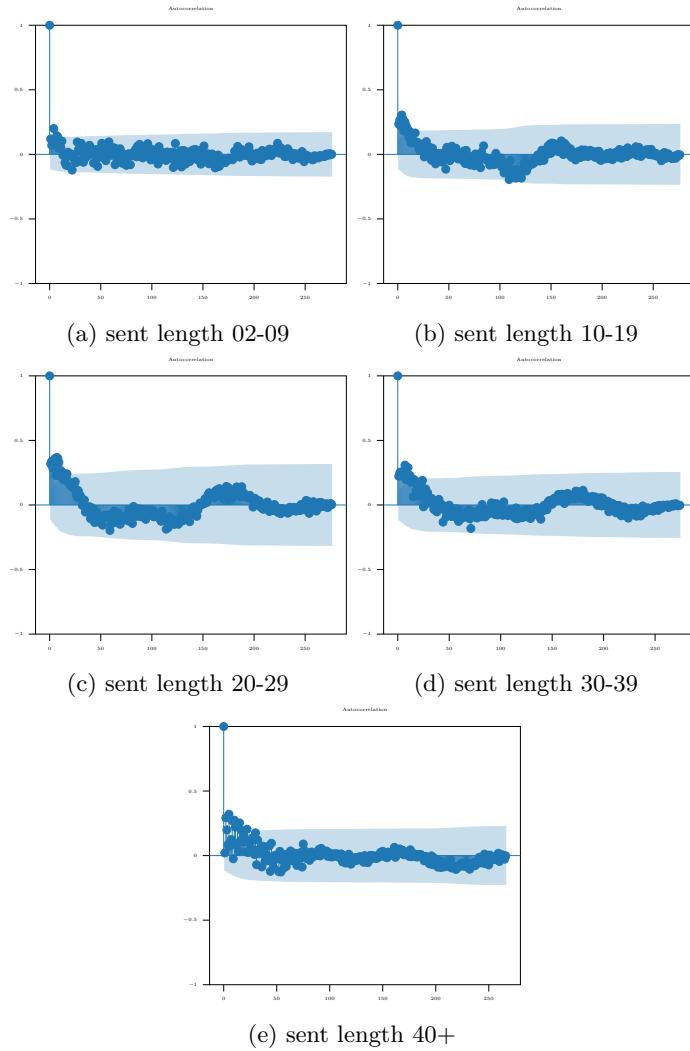


### **1.15.3 Statistics-cor**

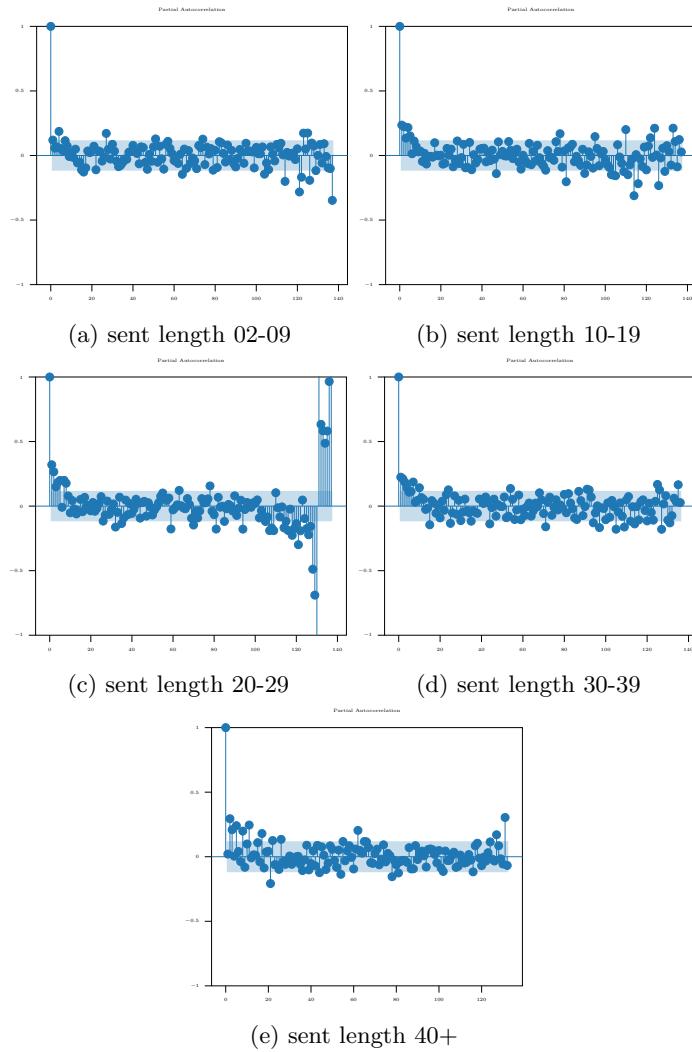
sent length 02-09 - Correlation: -0.16948228126706863  
sent length 10-19 - Correlation: -0.238458654680437  
sent length 20-29 - Correlation: 0.10007710122253678  
sent length 30-39 - Correlation: 0.13558760912303033  
sent length 40+ - Correlation: 0.09862159885553096

## 1.16 ratio of leafs15

### 1.16.1 Statistics-acf



### 1.16.2 Statistics-pacf

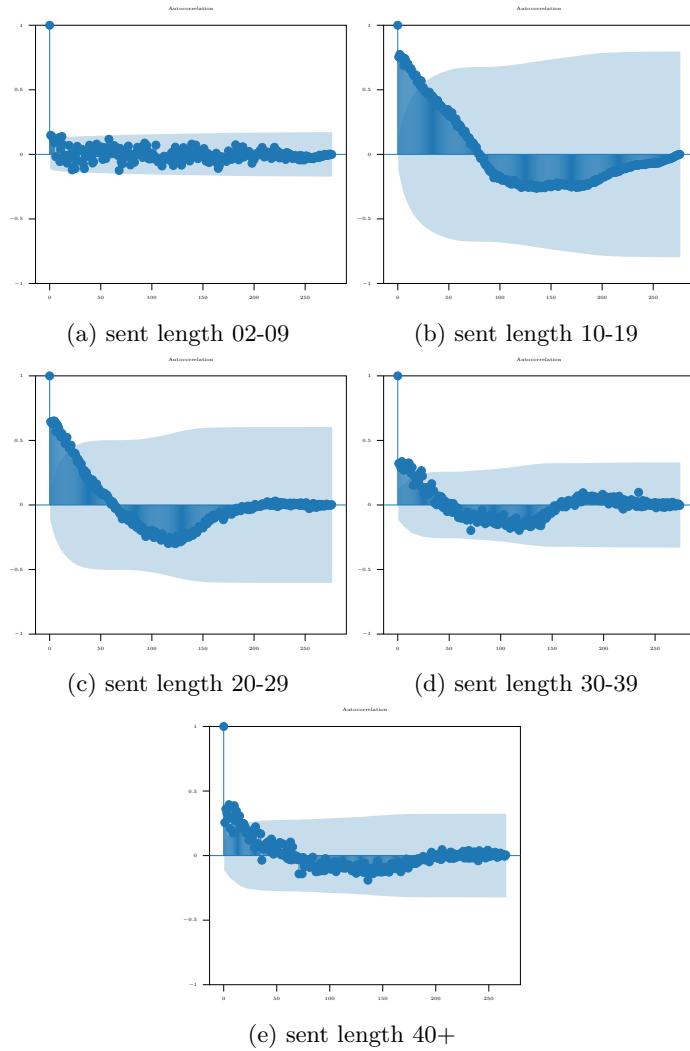


### **1.16.3 Statistics-cor**

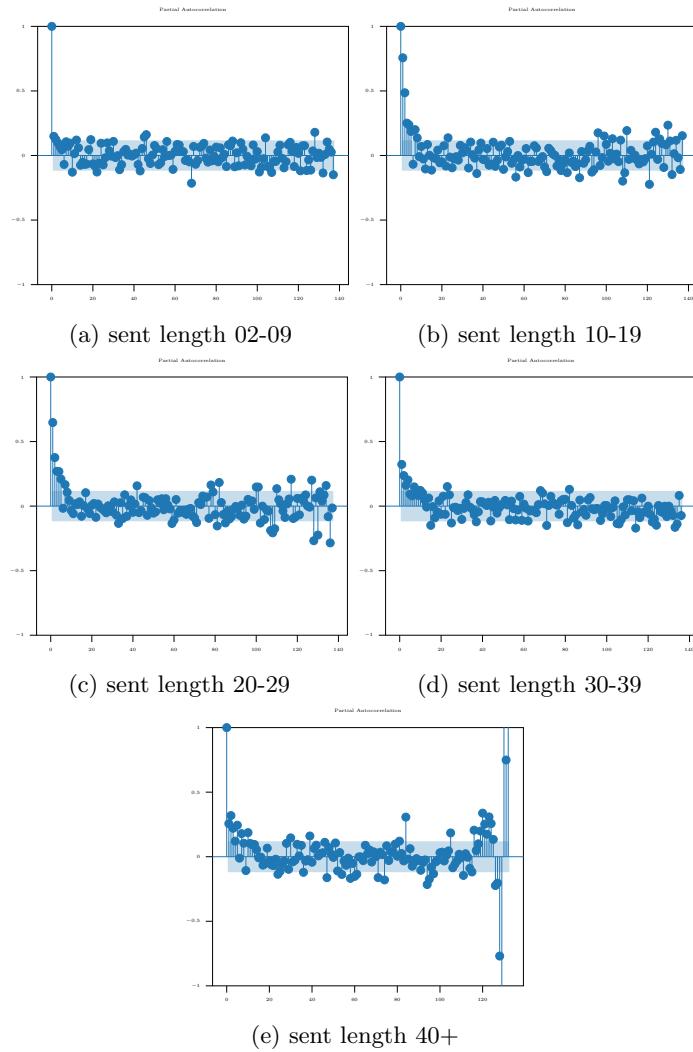
sent length 02-09 - Correlation: 0.1676932198757934  
sent length 10-19 - Correlation: 0.13838137520917118  
sent length 20-29 - Correlation: -0.12807399190962276  
sent length 30-39 - Correlation: -0.21976731567043728  
sent length 40+ - Correlation: -0.34856187228173674

## 1.17 number of leafs16

### 1.17.1 Statistics-acf



### 1.17.2 Statistics-pacf

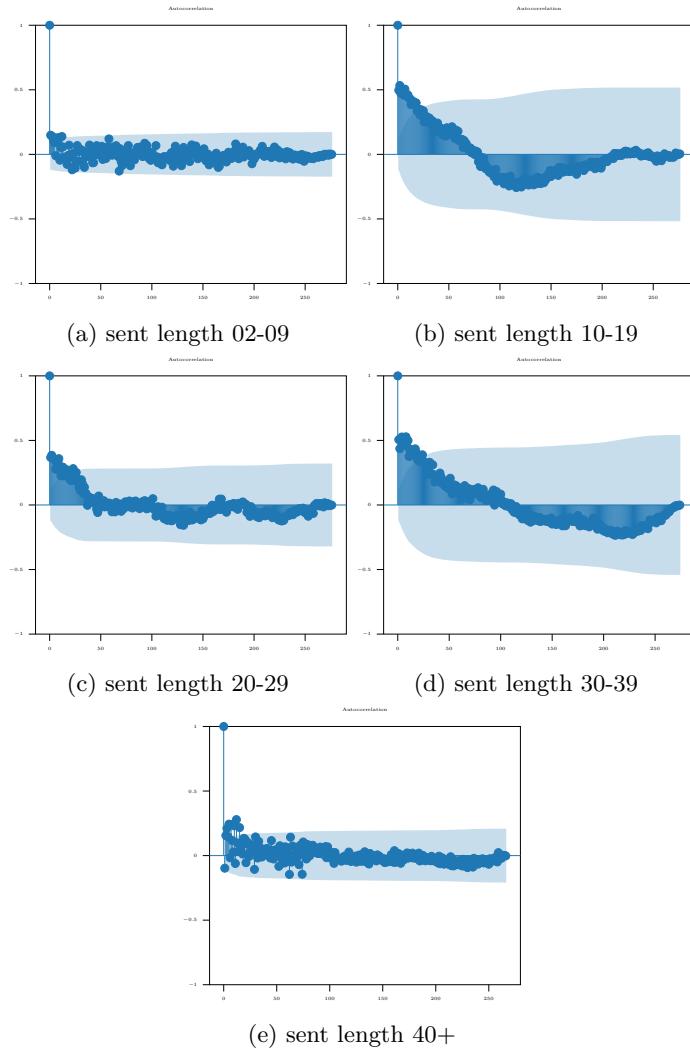


### **1.17.3 Statistics-cor**

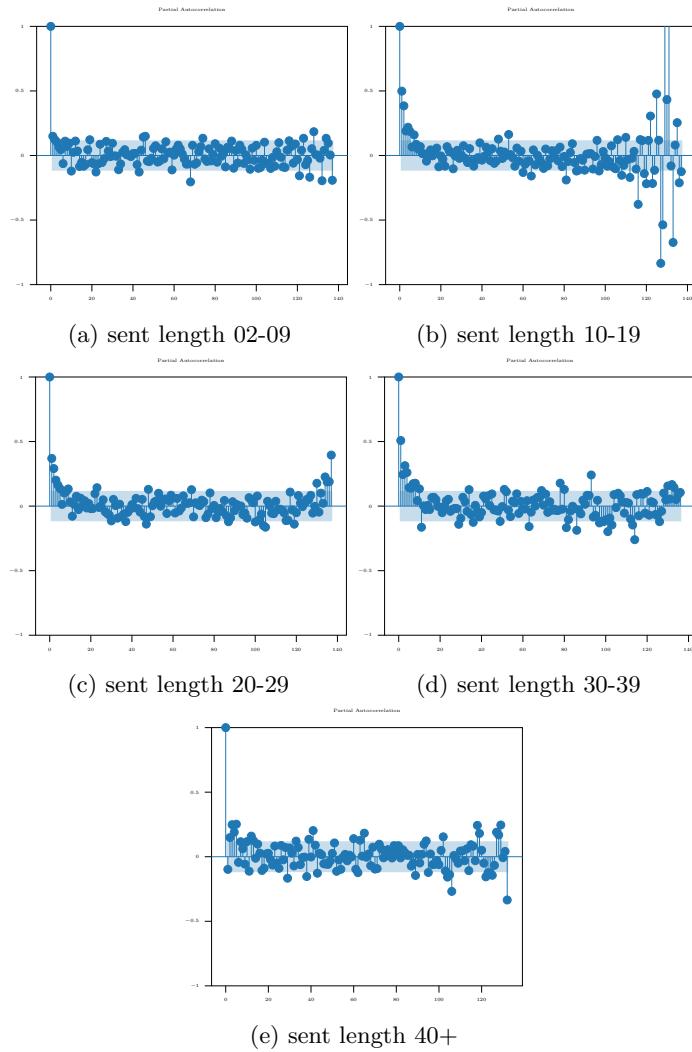
sent length 02-09 - Correlation: 0.19586000934211095  
sent length 10-19 - Correlation: 0.6957134029877768  
sent length 20-29 - Correlation: 0.40735051443046594  
sent length 30-39 - Correlation: 0.0993667856836883  
sent length 40+ - Correlation: 0.31359810361932633

## 1.18 width of tree19

### 1.18.1 Statistics-acf



### 1.18.2 Statistics-pacf

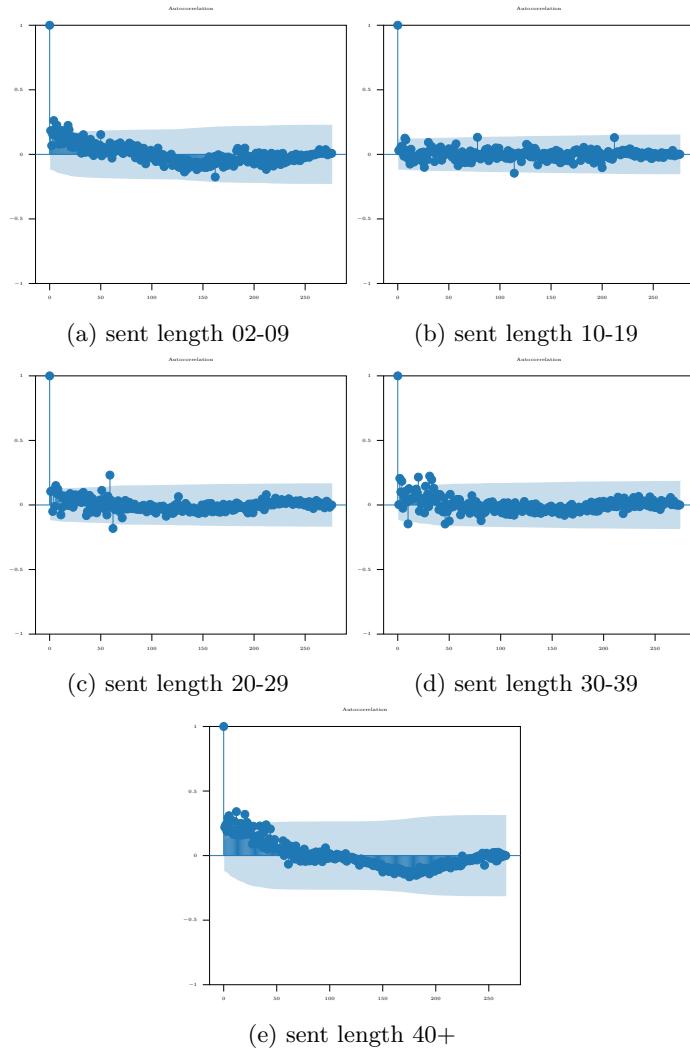


### **1.18.3 Statistics-cor**

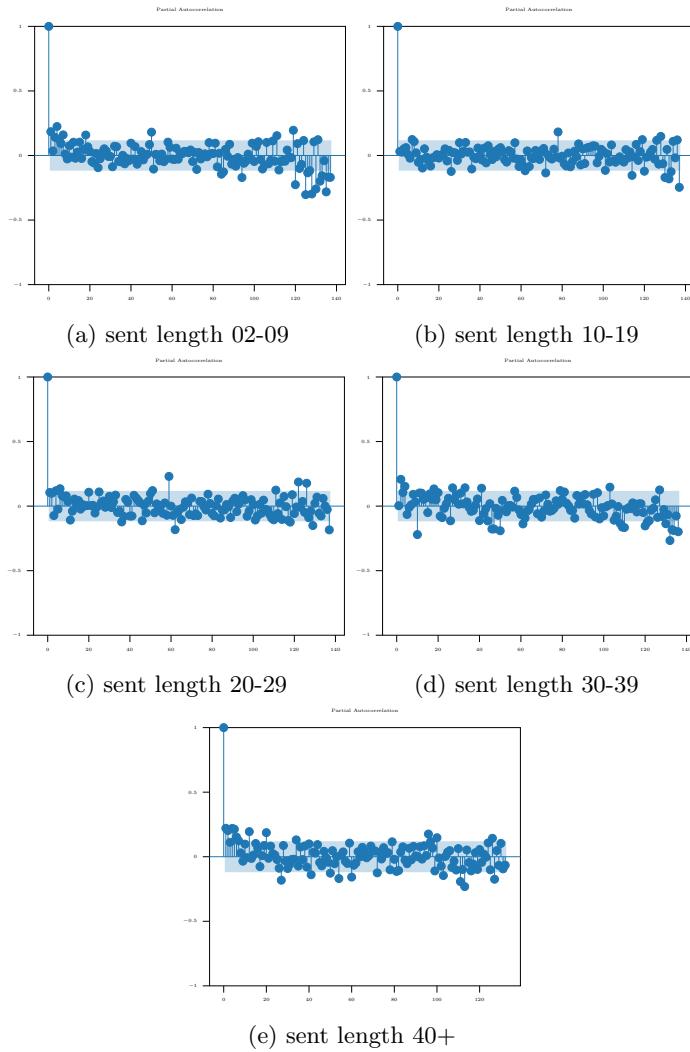
sent length 02-09 - Correlation: 0.18084280932731703  
sent length 10-19 - Correlation: 0.4562887185213853  
sent length 20-29 - Correlation: -0.4165208266720357  
sent length 30-39 - Correlation: -0.6893657404933535  
sent length 40+ - Correlation: -0.340197450576482

## 1.19 lowest lv max width20

### 1.19.1 Statistics-acf



### 1.19.2 Statistics-pacf

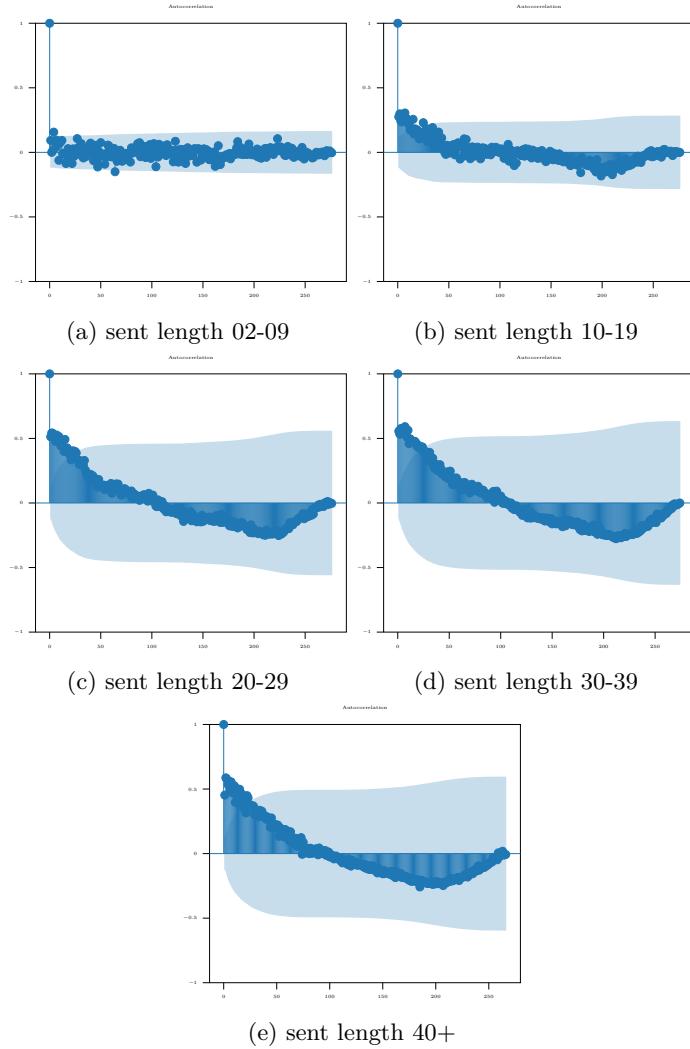


### **1.19.3 Statistics-cor**

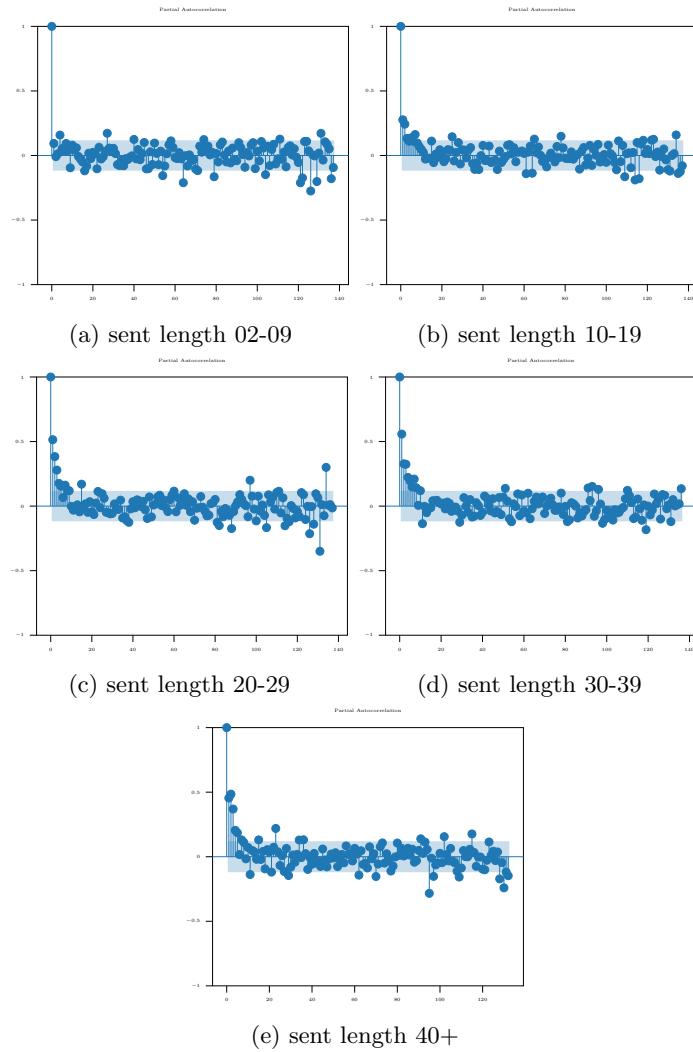
sent length 02-09 - Correlation: -0.3306953628589599  
sent length 10-19 - Correlation: -0.08551768816524934  
sent length 20-29 - Correlation: -0.04802899104750714  
sent length 30-39 - Correlation: 0.09563736478467343  
sent length 40+ - Correlation: 0.44940694504960443

## 1.20 ratio vertices belonging latter level21

### 1.20.1 Statistics-acf



### 1.20.2 Statistics-pacf

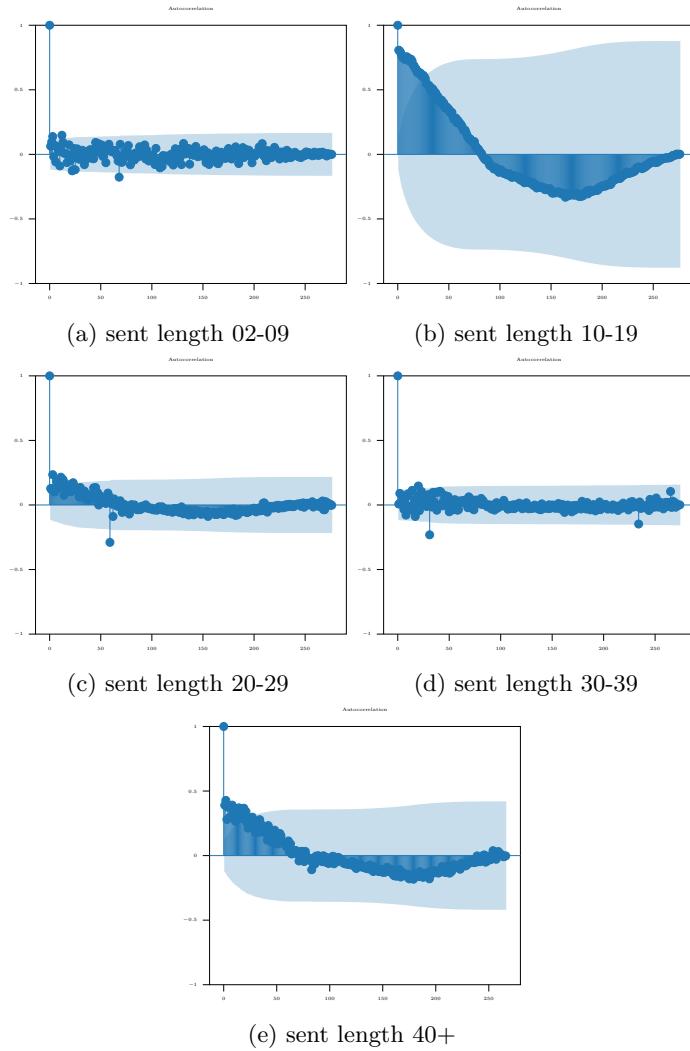


### **1.20.3 Statistics-cor**

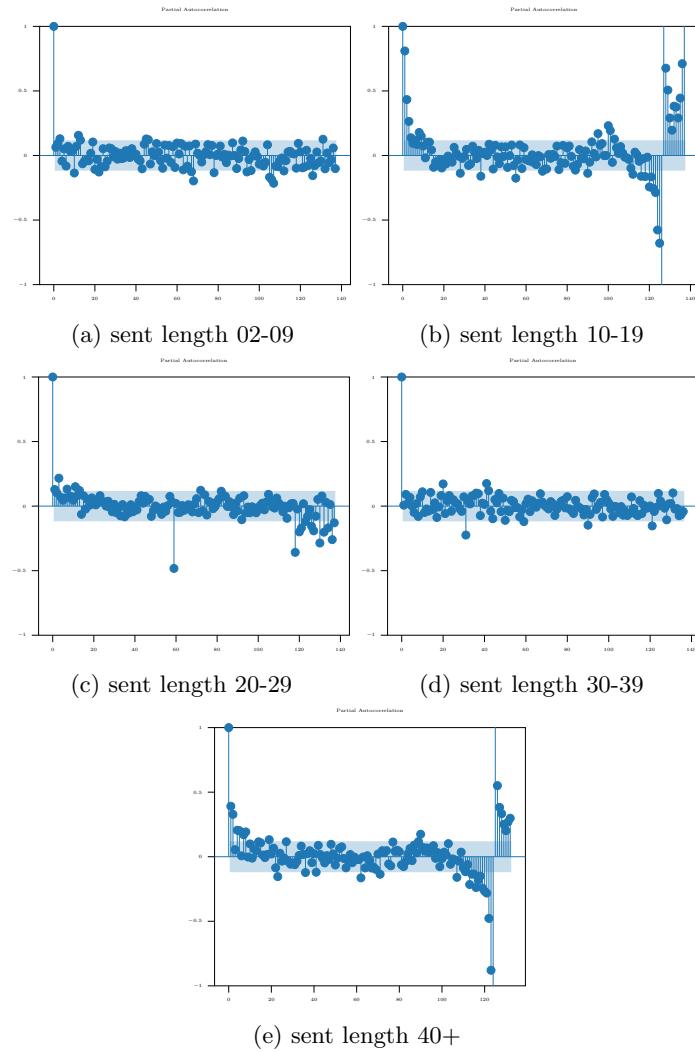
sent length 02-09 - Correlation: 0.10989019194388537  
sent length 10-19 - Correlation: -0.4326156953760738  
sent length 20-29 - Correlation: -0.6831863942853821  
sent length 30-39 - Correlation: -0.7481574421727204  
sent length 40+ - Correlation: -0.7078871004190587

## 1.21 Hirsch index22

### 1.21.1 Statistics-acf



### 1.21.2 Statistics-pacf

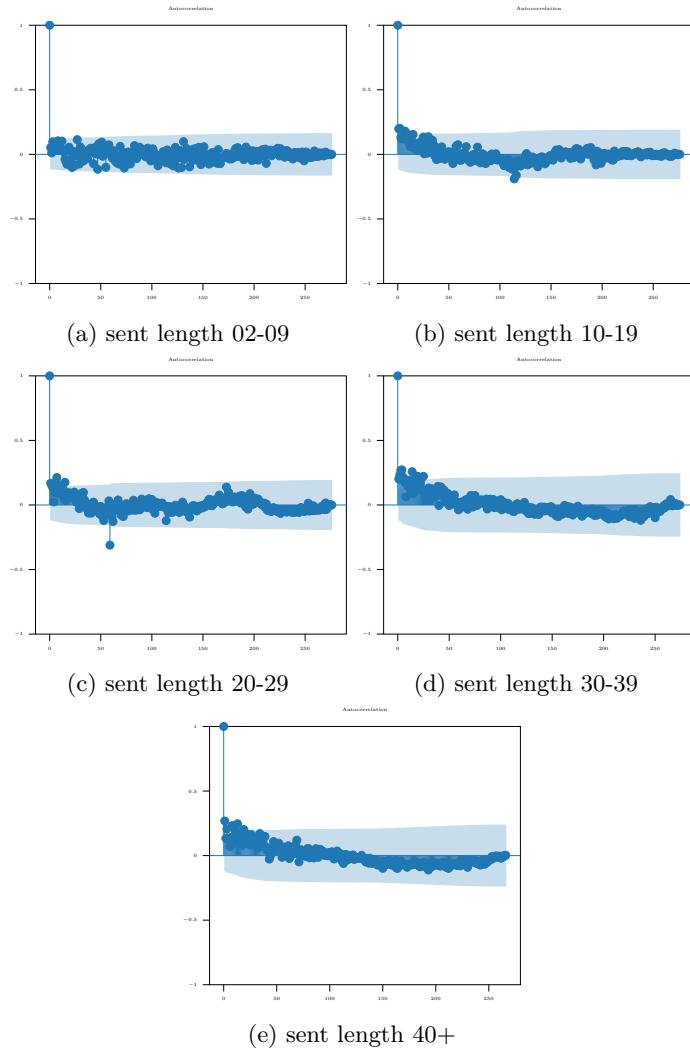


### **1.21.3 Statistics-cor**

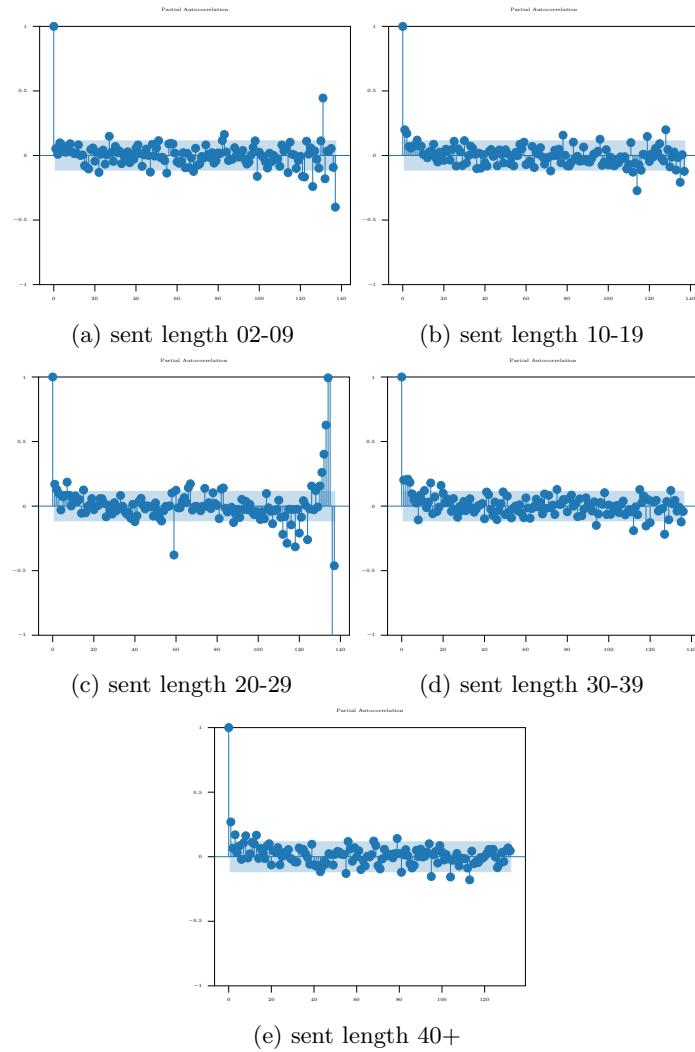
sent length 02-09 - Correlation: 0.06611572164655484  
sent length 10-19 - Correlation: 0.7582515953751947  
sent length 20-29 - Correlation: 0.2884927391457686  
sent length 30-39 - Correlation: 0.17727640603547404  
sent length 40+ - Correlation: 0.5299193331338922

## 1.22 ratio vertices contributing h index23

### 1.22.1 Statistics-acf



### 1.22.2 Statistics-pacf

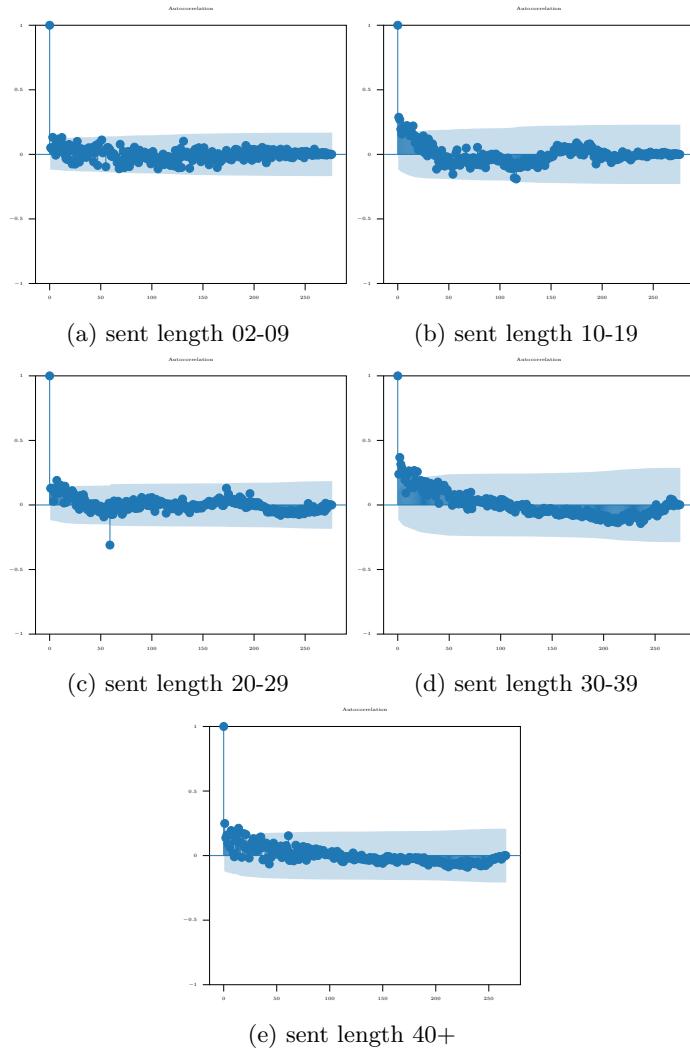


### **1.22.3 Statistics-cor**

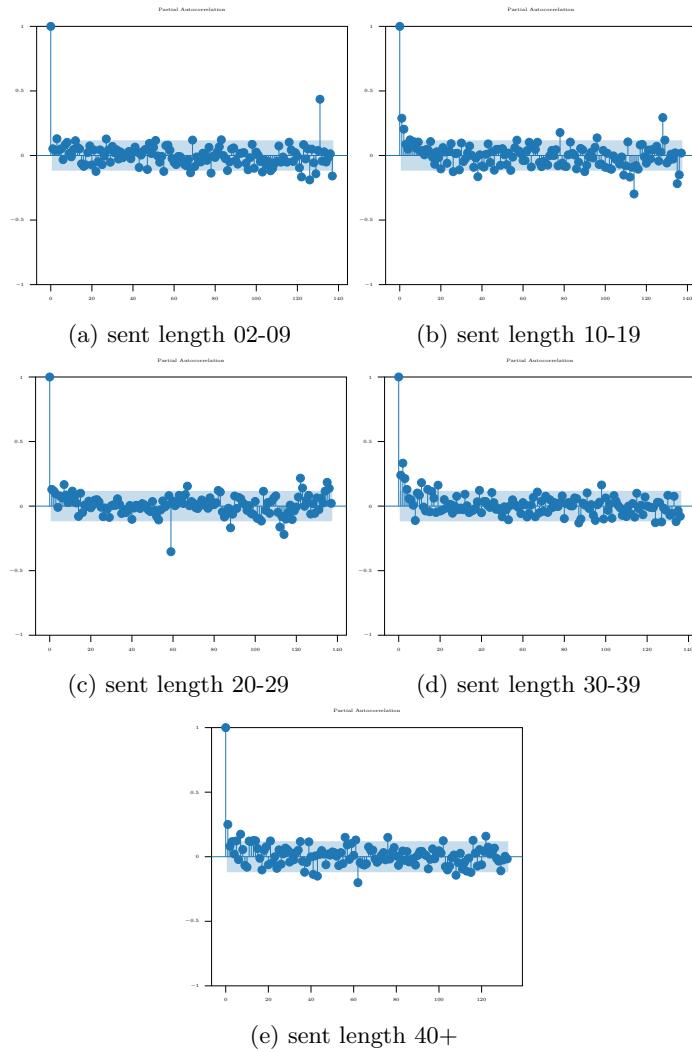
sent length 02-09 - Correlation: 0.10355089298253609  
sent length 10-19 - Correlation: 0.18046146479643796  
sent length 20-29 - Correlation: -0.22221846774249576  
sent length 30-39 - Correlation: -0.40918397018511565  
sent length 40+ - Correlation: -0.4242113914122082

## 1.23 relative h index24

### 1.23.1 Statistics-acf



### 1.23.2 Statistics-pacf



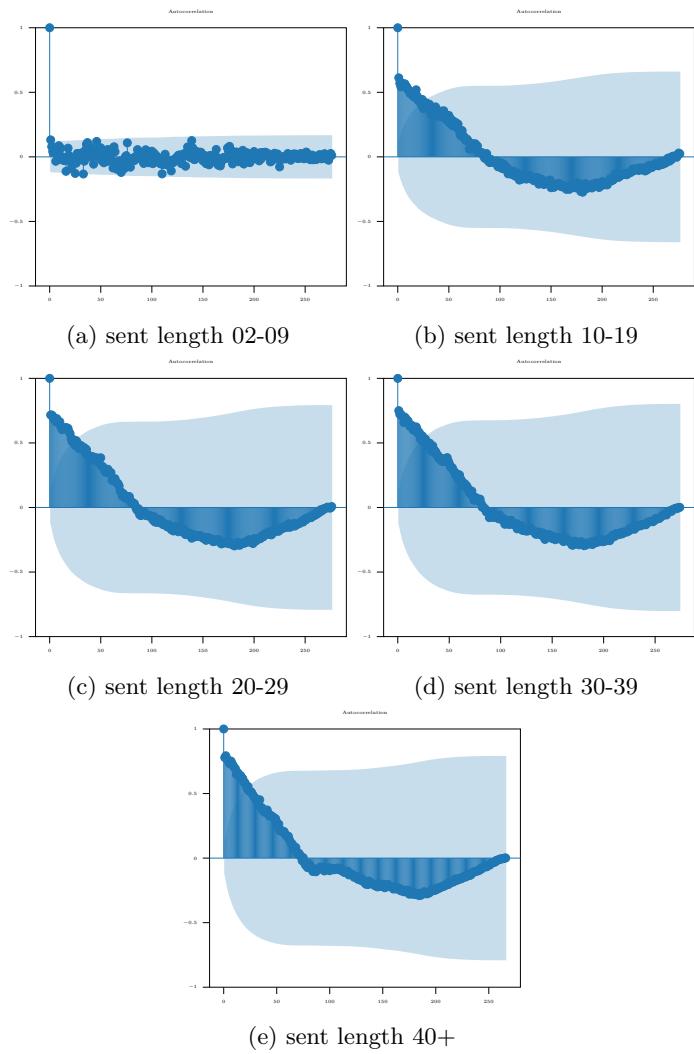
### **1.23.3 Statistics-cor**

sent length 02-09 - Correlation: -0.00634332340171774  
sent length 10-19 - Correlation: 0.15083329910783033  
sent length 20-29 - Correlation: -0.2743545520131942  
sent length 30-39 - Correlation: -0.46655029955762706  
sent length 40+ - Correlation: -0.3877951263846454

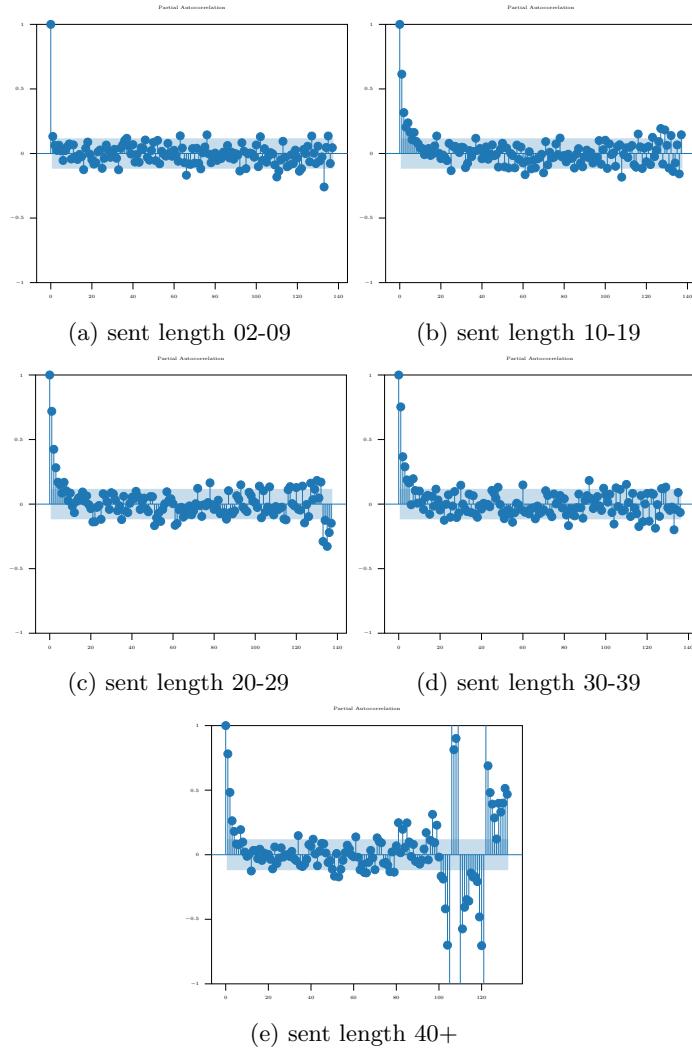
## 2 doc-Based:

### 2.1 n verbs0

#### 2.1.1 Statistics-acf



### 2.1.2 Statistics-pacf

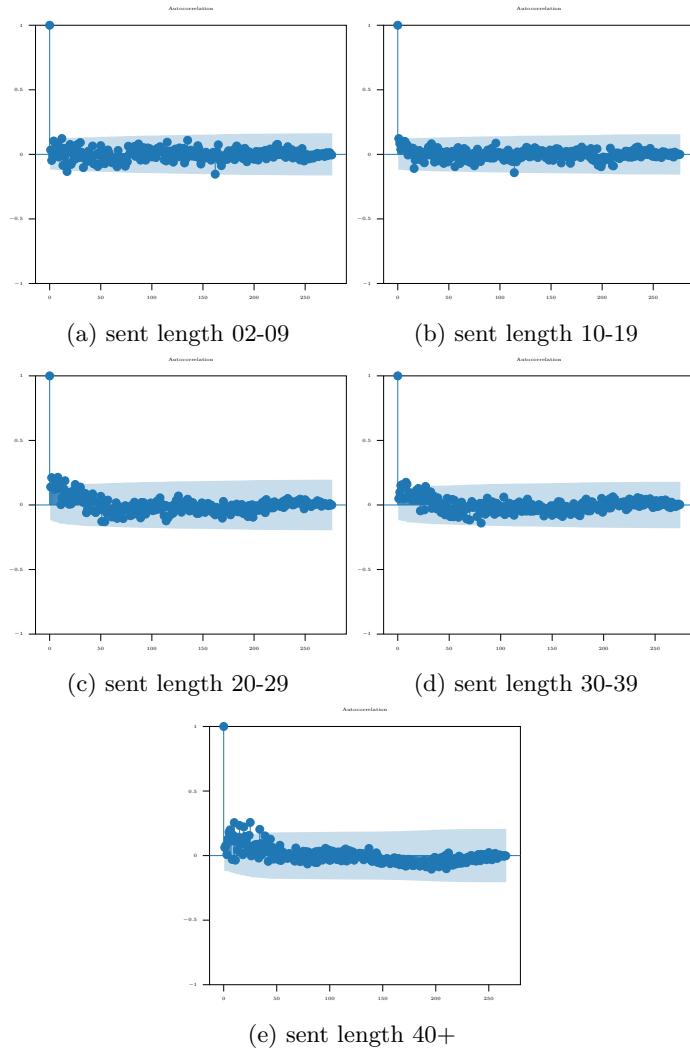


### **2.1.3 Statistics-cor**

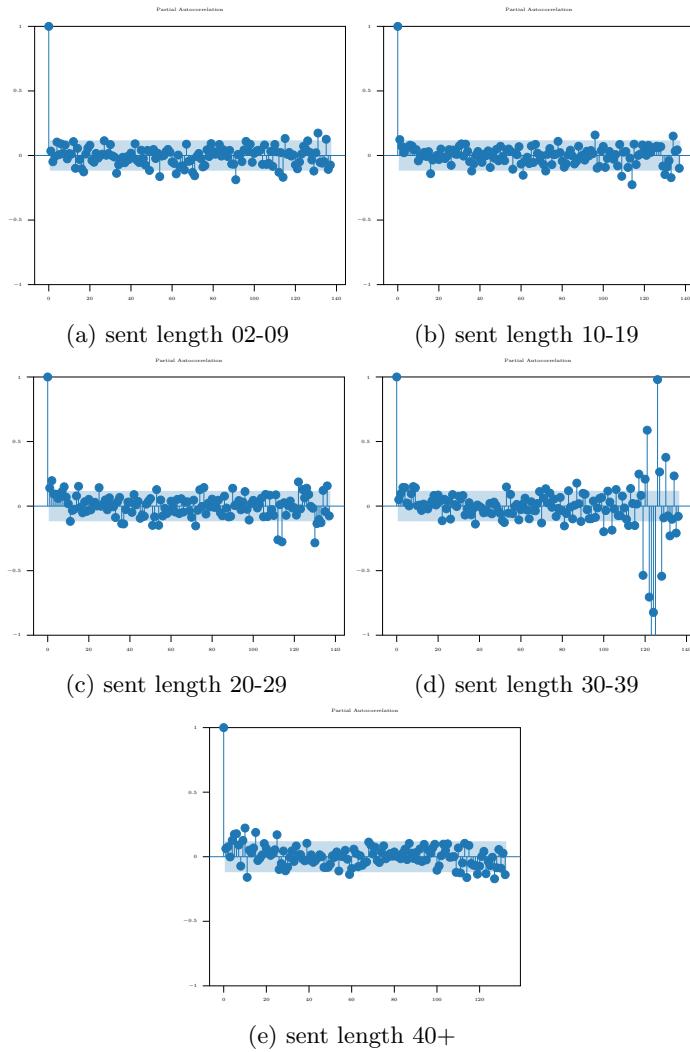
sent length 02-09 - Correlation: 0.06512004853744204  
sent length 10-19 - Correlation: 0.677830228639948  
sent length 20-29 - Correlation: 0.7563295262089834  
sent length 30-39 - Correlation: 0.7652653109832499  
sent length 40+ - Correlation: 0.7498772426966901

## 2.2 complexity ratio1

### 2.2.1 Statistics-acf



## 2.2.2 Statistics-pacf

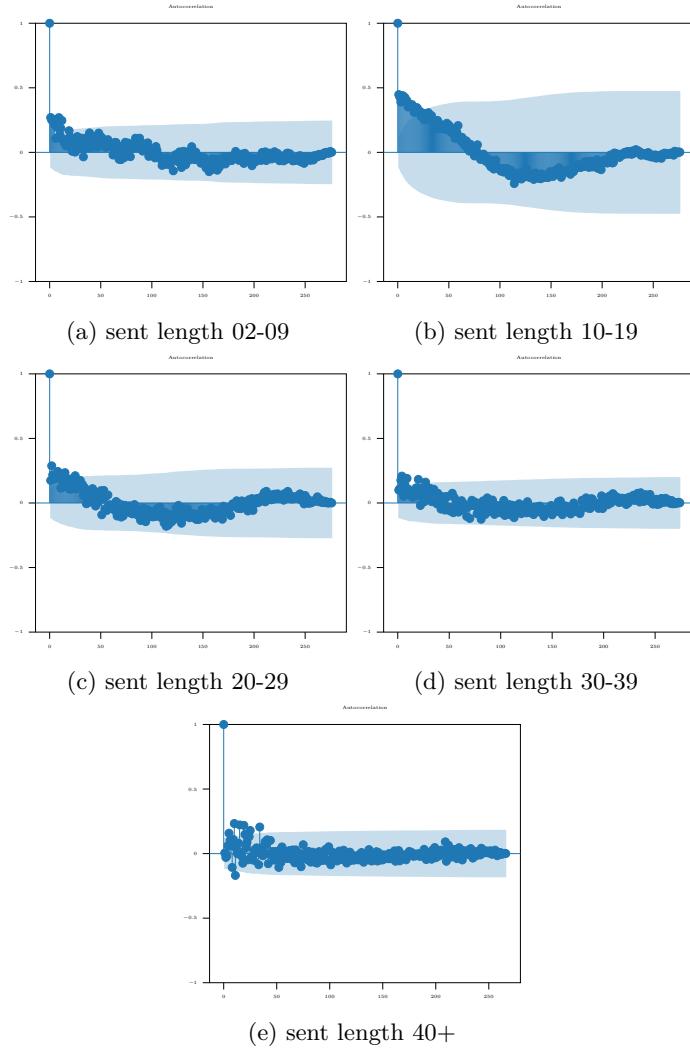


### **2.2.3 Statistics-cor**

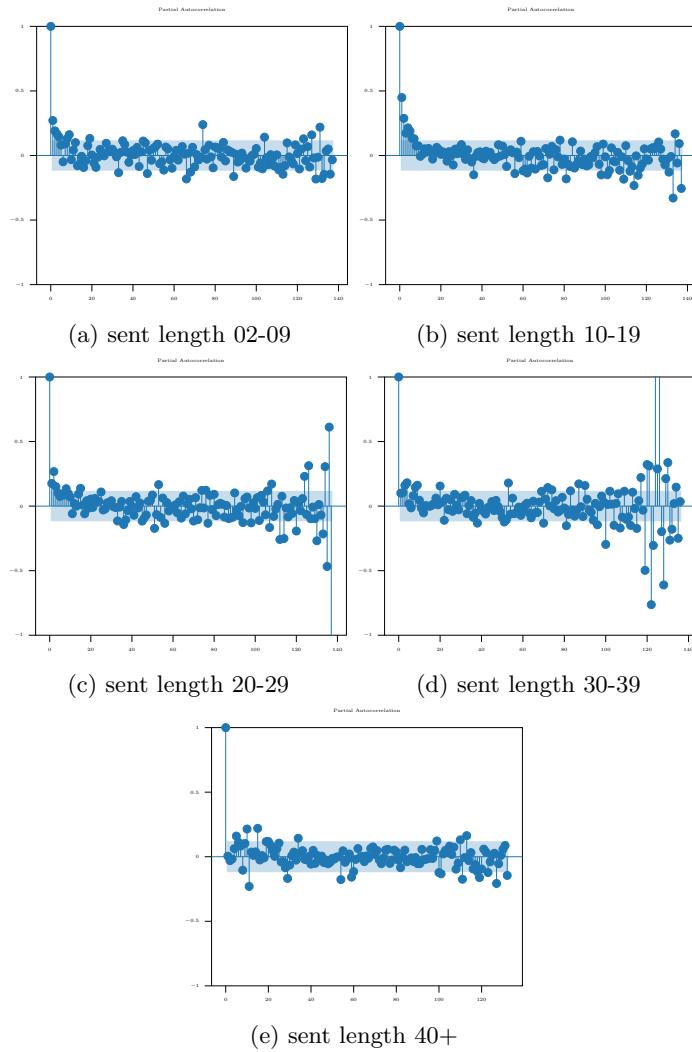
sent length 02-09 - Correlation: 0.0594919022104239  
sent length 10-19 - Correlation: -0.09747699357301375  
sent length 20-29 - Correlation: -0.16708749187931038  
sent length 30-39 - Correlation: -0.09208355737817862  
sent length 40+ - Correlation: -0.32696064465967467

## 2.3 absolute complexity2

### 2.3.1 Statistics-acf



### 2.3.2 Statistics-pacf

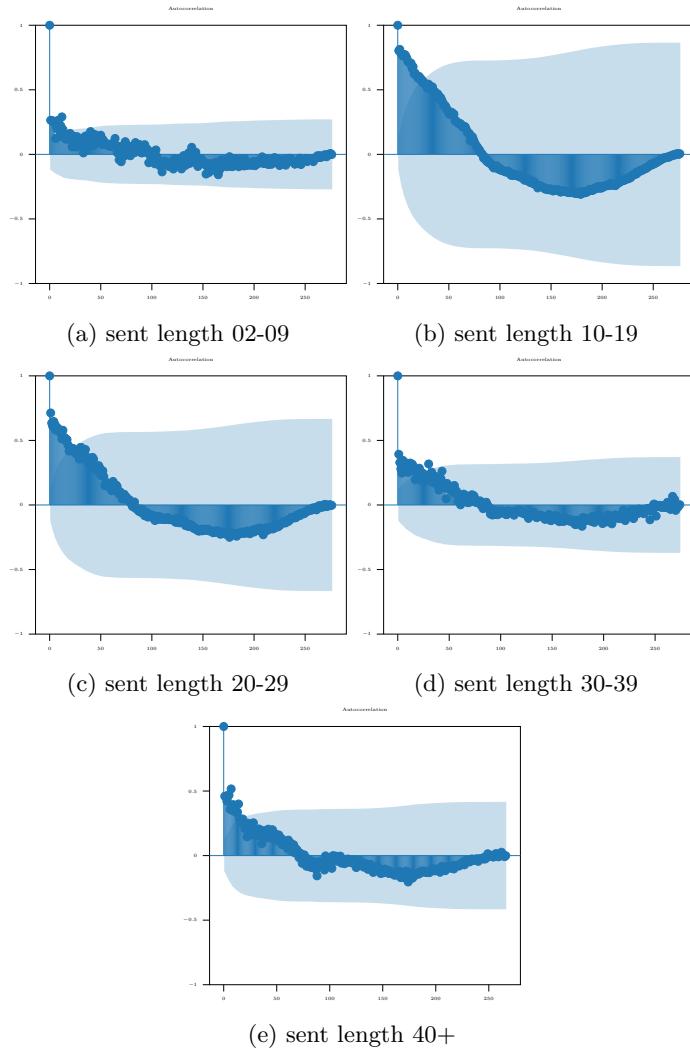


### **2.3.3 Statistics-cor**

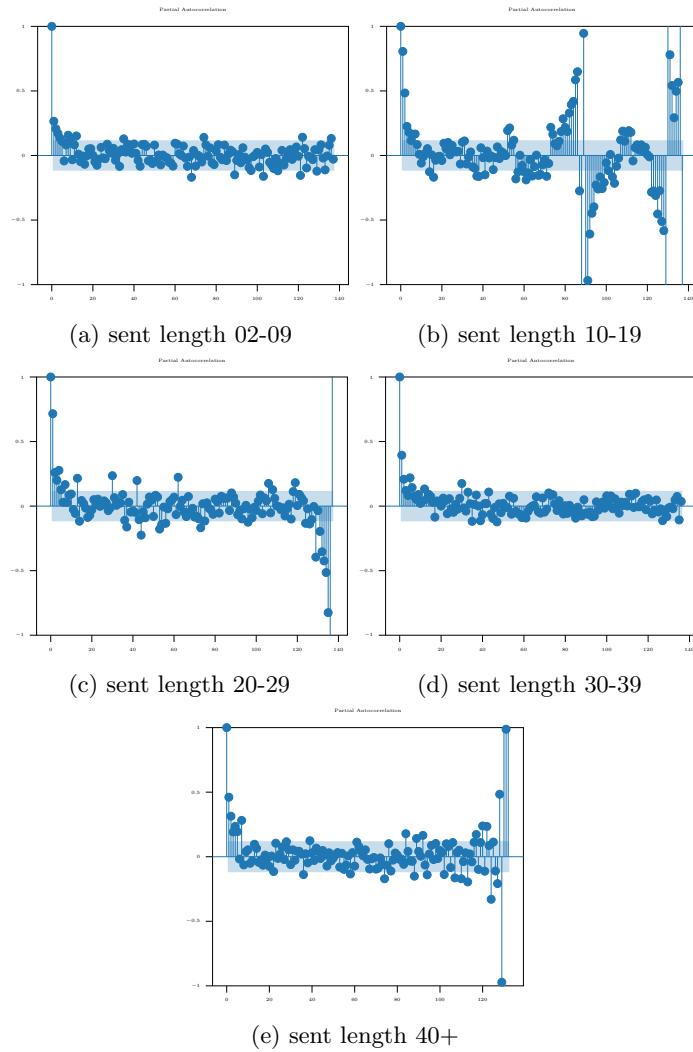
sent length 02-09 - Correlation: 0.39042932136645975  
sent length 10-19 - Correlation: 0.4747739816111776  
sent length 20-29 - Correlation: 0.10620647944956203  
sent length 30-39 - Correlation: 0.006498633448451171  
sent length 40+ - Correlation: -0.10485911518548802

## 2.4 order of tree3

### 2.4.1 Statistics-acf



## 2.4.2 Statistics-pacf

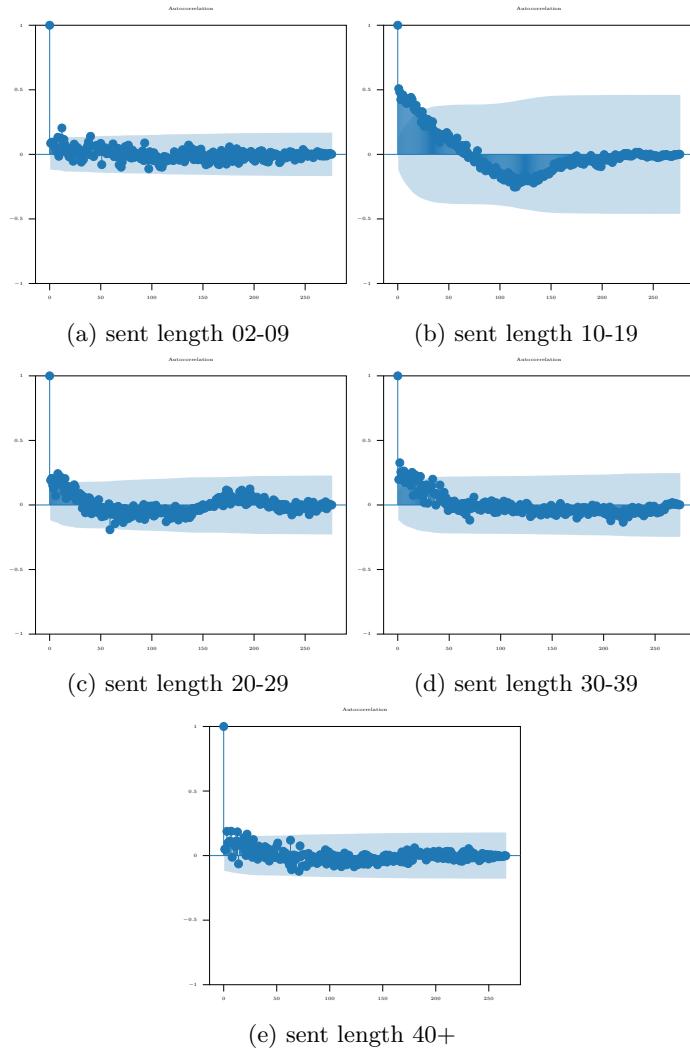


#### **2.4.3 Statistics-cor**

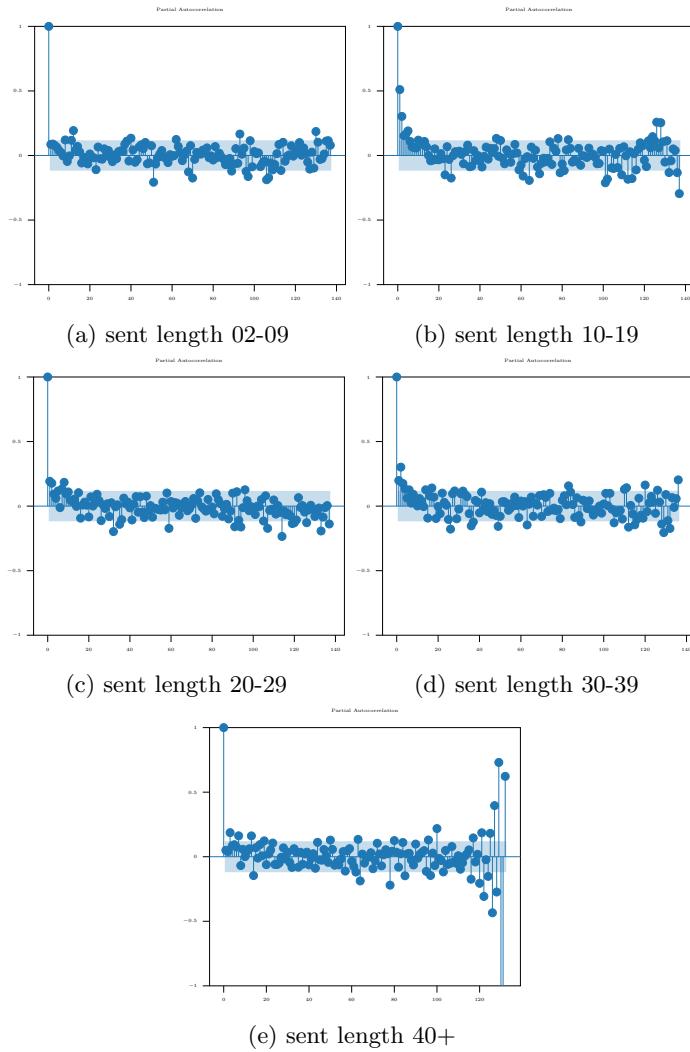
sent length 02-09 - Correlation: 0.42552871161511374  
sent length 10-19 - Correlation: 0.7688578953340538  
sent length 20-29 - Correlation: 0.6775178196892031  
sent length 30-39 - Correlation: 0.49090746990976286  
sent length 40+ - Correlation: 0.5084708542998151

## 2.5 dependency index4

### 2.5.1 Statistics-acf



### 2.5.2 Statistics-pacf

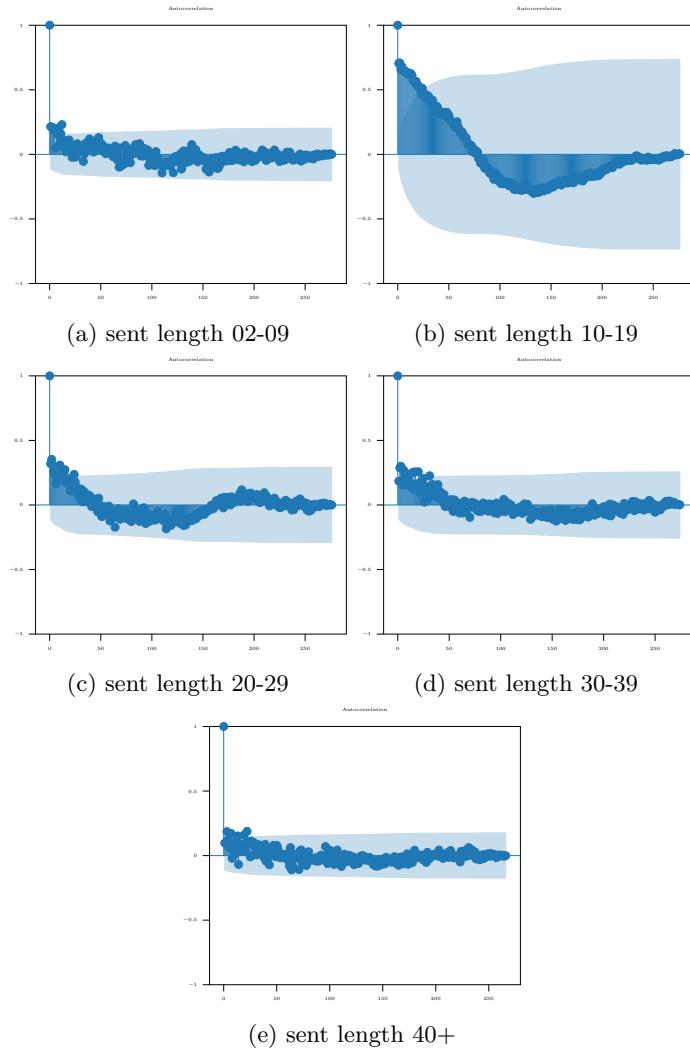


### **2.5.3 Statistics-cor**

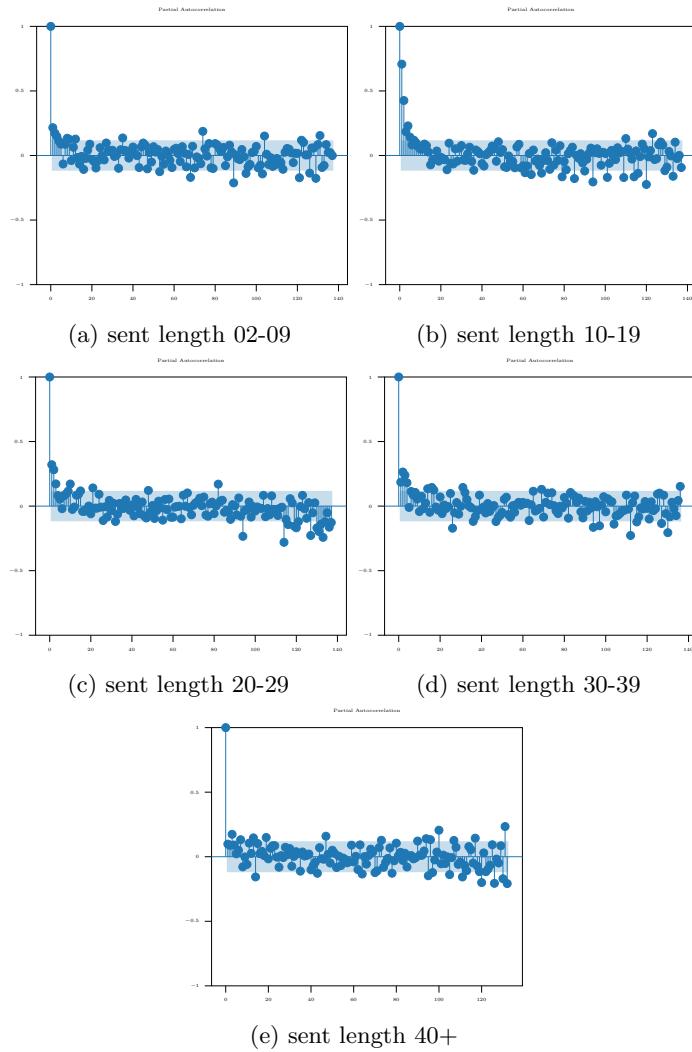
sent length 02-09 - Correlation: 0.20218210879246998  
sent length 10-19 - Correlation: -0.40772078660561756  
sent length 20-29 - Correlation: 0.14656625442725188  
sent length 30-39 - Correlation: 0.37283324284065916  
sent length 40+ - Correlation: 0.19103530187647955

## 2.6 stratum of tree5

### 2.6.1 Statistics-acf



## 2.6.2 Statistics-pacf

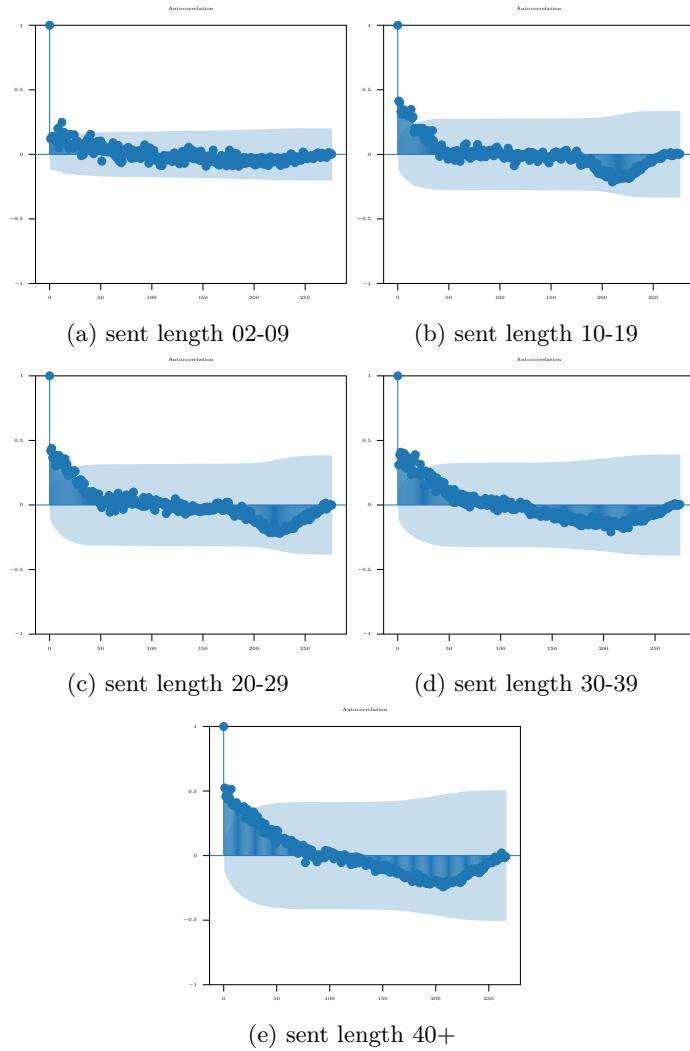


### **2.6.3 Statistics-cor**

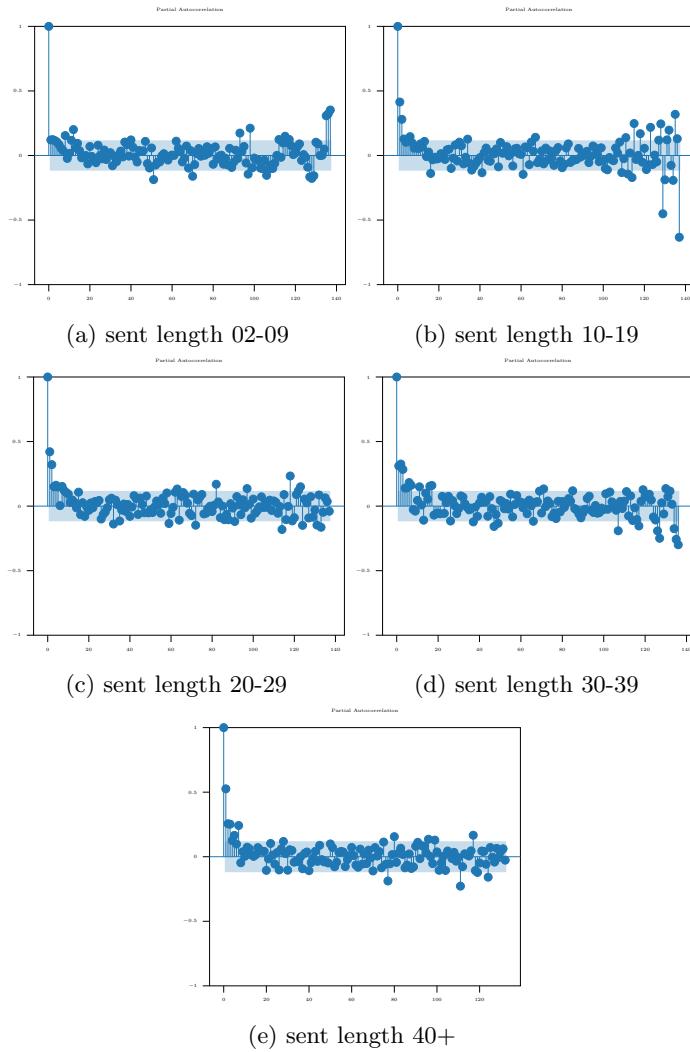
sent length 02-09 - Correlation: -0.2854324281065778  
sent length 10-19 - Correlation: -0.6111017076049801  
sent length 20-29 - Correlation: 0.0997527310633668  
sent length 30-39 - Correlation: 0.3267541415067355  
sent length 40+ - Correlation: 0.1836300857813592

## 2.7 depth of tree6

### 2.7.1 Statistics-acf



### 2.7.2 Statistics-pacf

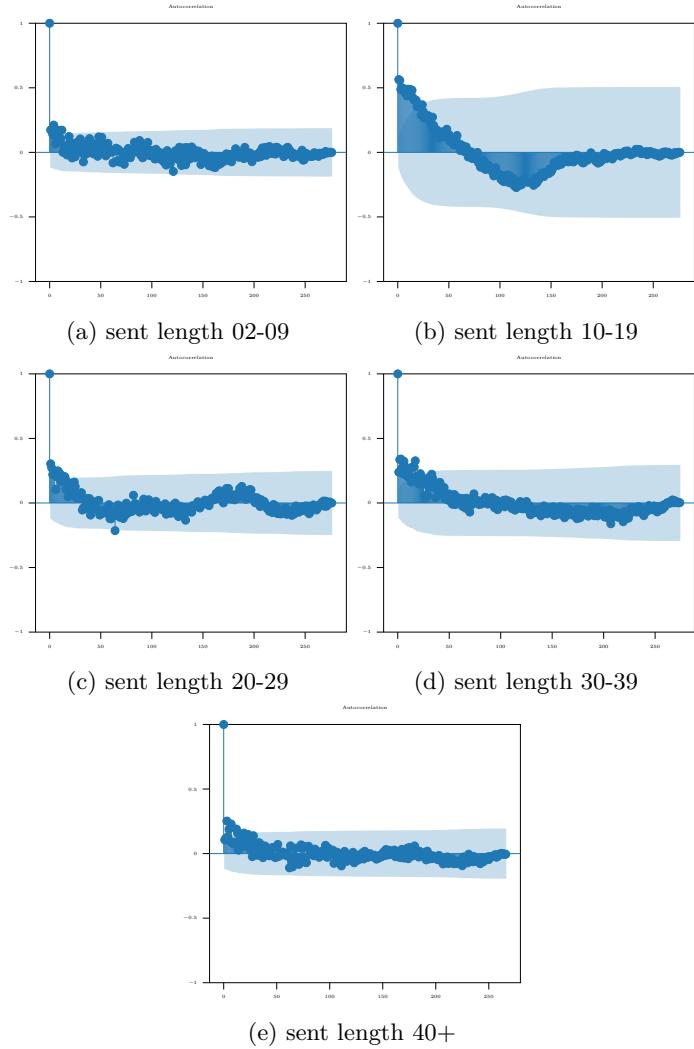


### **2.7.3 Statistics-cor**

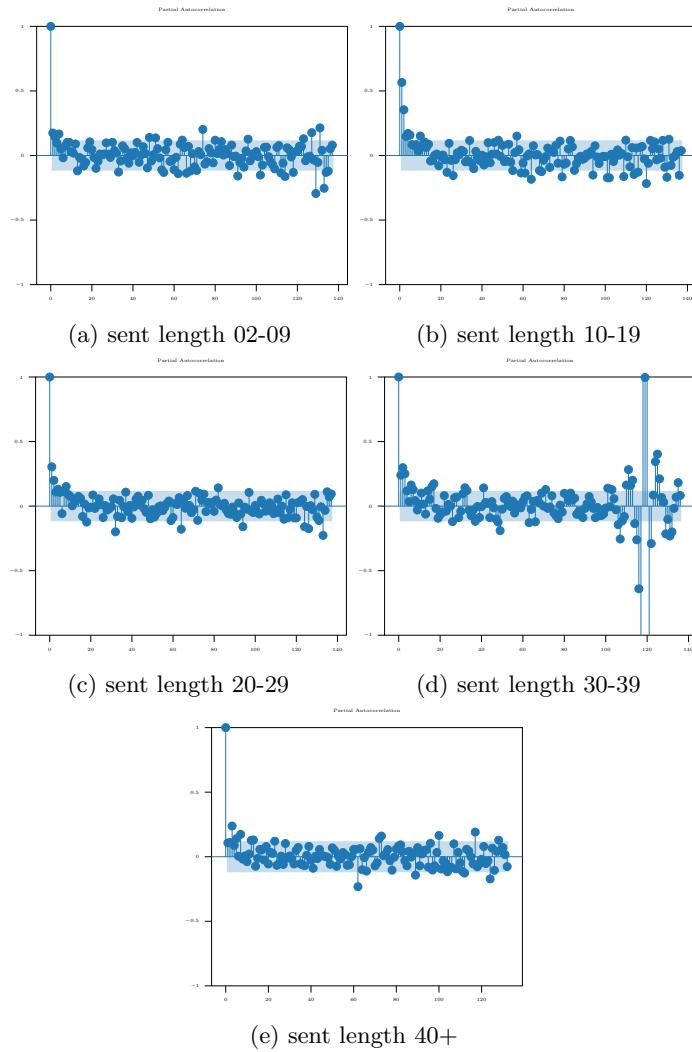
sent length 02-09 - Correlation: 0.33508930800939474  
sent length 10-19 - Correlation: 0.48973722375192075  
sent length 20-29 - Correlation: 0.5663924692162519  
sent length 30-39 - Correlation: 0.5569713603448285  
sent length 40+ - Correlation: 0.6578546127387743

## 2.8 ratio vertices on lp from rt7

### 2.8.1 Statistics-acf



## 2.8.2 Statistics-pacf

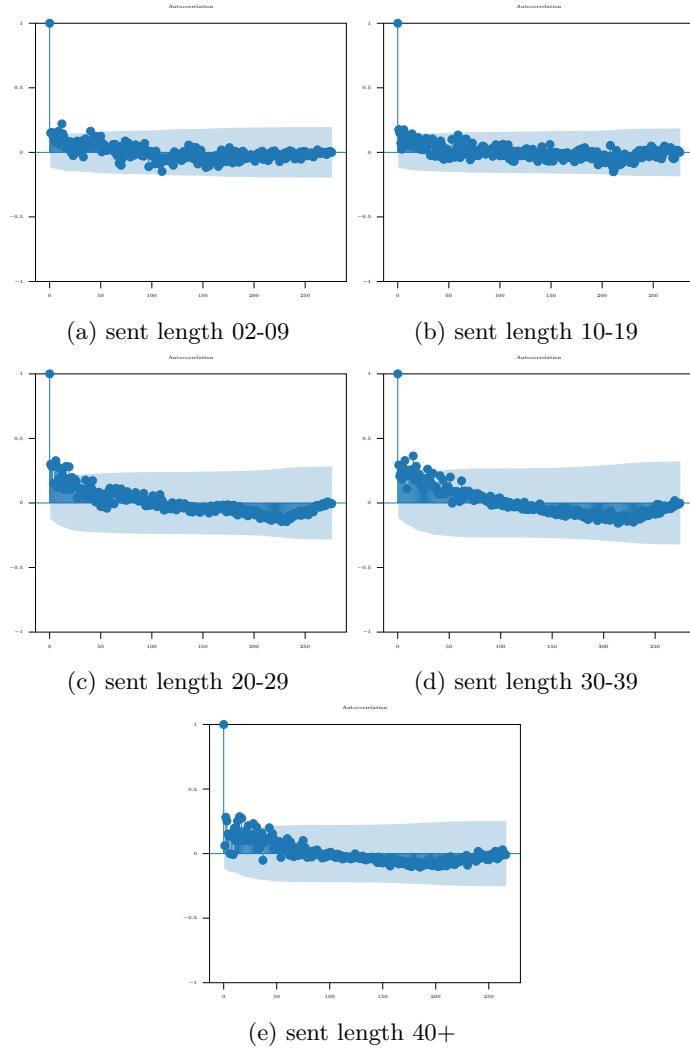


### **2.8.3 Statistics-cor**

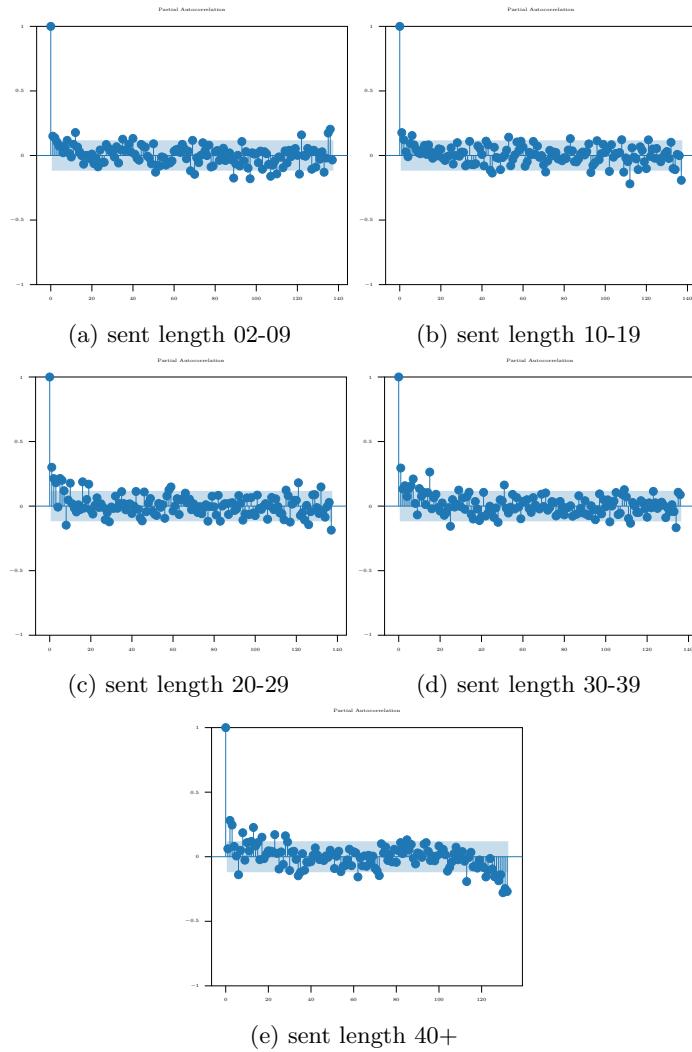
sent length 02-09 - Correlation: -0.2443102469905471  
sent length 10-19 - Correlation: -0.41743582115465844  
sent length 20-29 - Correlation: 0.2520779194550565  
sent length 30-39 - Correlation: 0.44278310018115646  
sent length 40+ - Correlation: 0.324648382091619

## 2.9 leaf distance entropy8

### 2.9.1 Statistics-acf



## 2.9.2 Statistics-pacf

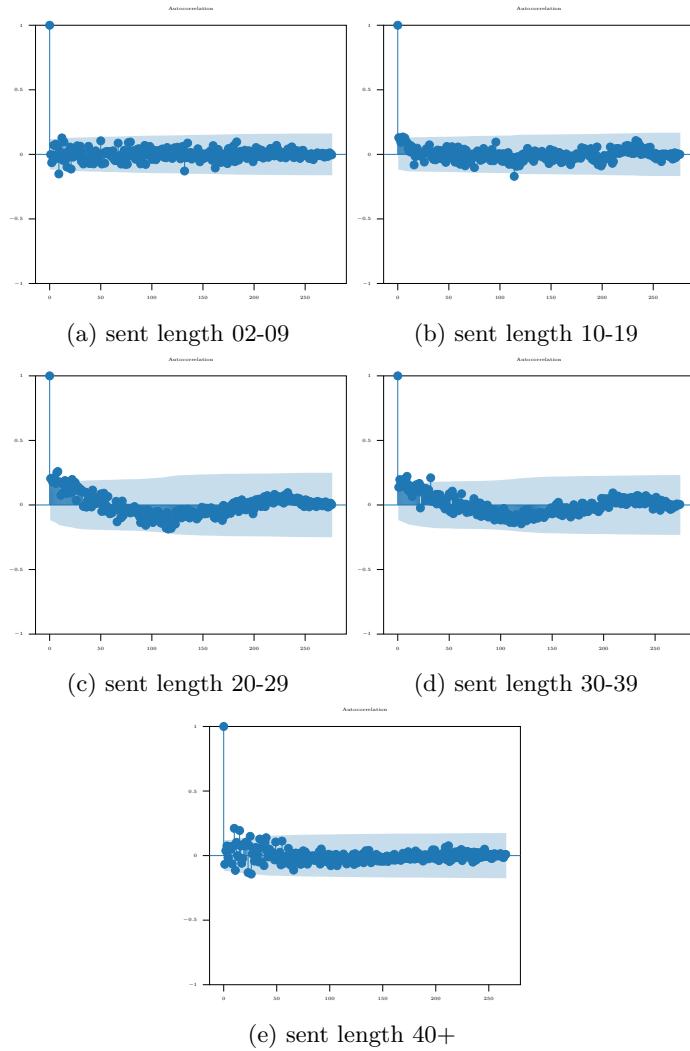


### **2.9.3 Statistics-cor**

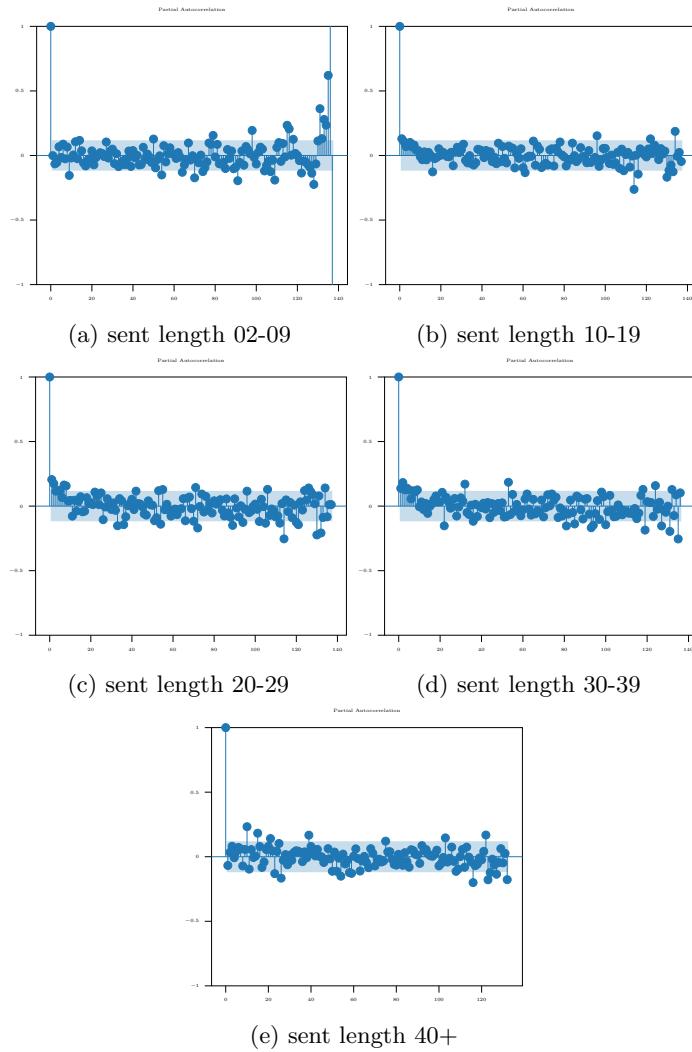
sent length 02-09 - Correlation: 0.28553214986631886  
sent length 10-19 - Correlation: 0.2811681918127313  
sent length 20-29 - Correlation: 0.4767065608031056  
sent length 30-39 - Correlation: 0.5147501248178014  
sent length 40+ - Correlation: 0.4090601605114778

## 2.10 ratio of leafs at d1 to rt9

### 2.10.1 Statistics-acf



## 2.10.2 Statistics-pacf

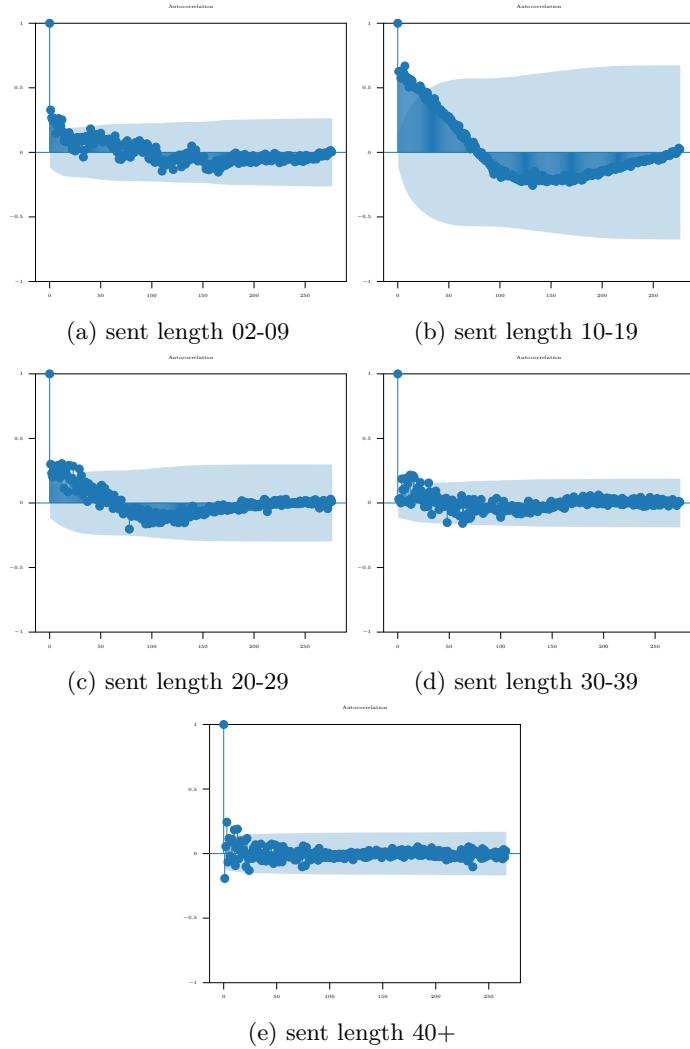


### **2.10.3 Statistics-cor**

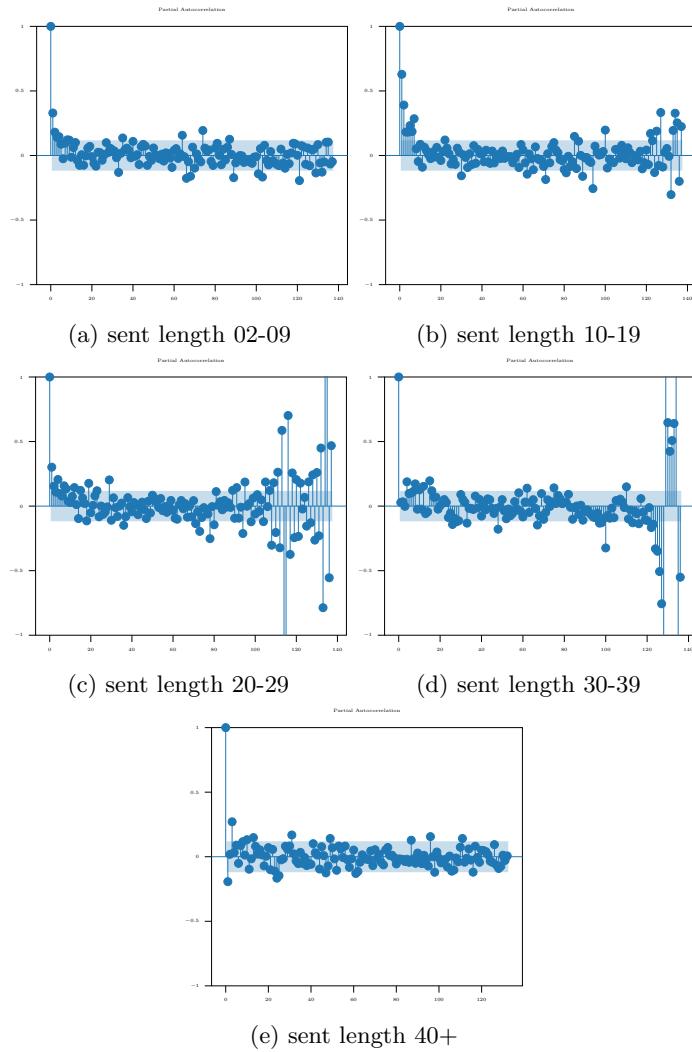
sent length 02-09 - Correlation: 0.006256170378180899  
sent length 10-19 - Correlation: 0.07008975767013487  
sent length 20-29 - Correlation: 0.07656158255714143  
sent length 30-39 - Correlation: 0.13866010428743955  
sent length 40+ - Correlation: -0.10863744713002091

## 2.11 mean dependency distance10

### 2.11.1 Statistics-acf



## 2.11.2 Statistics-pacf

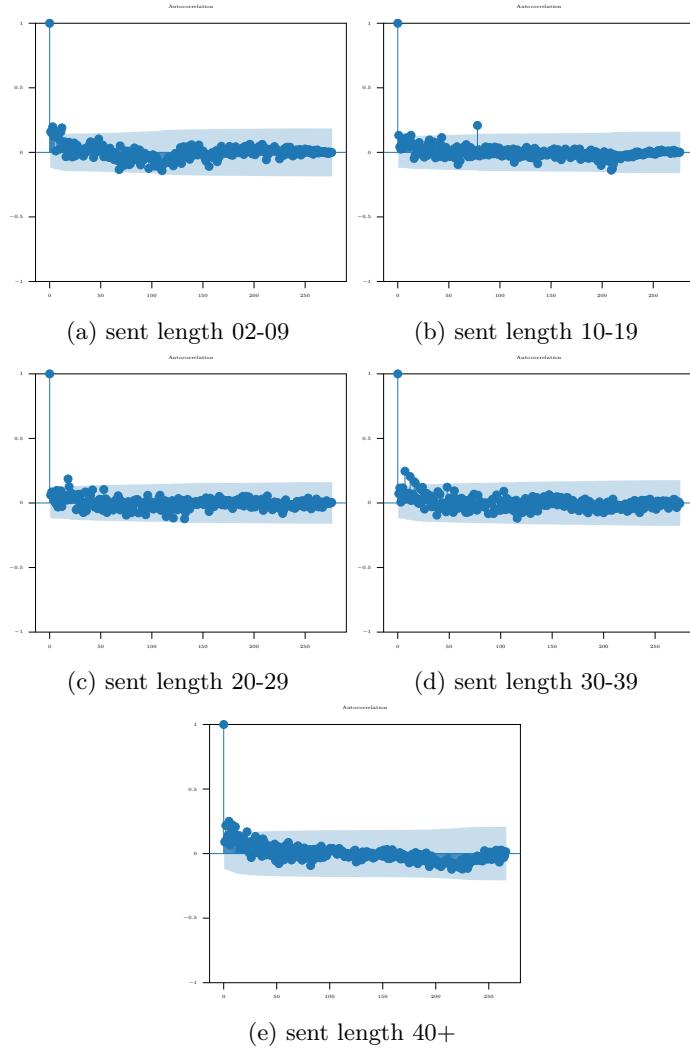


### **2.11.3 Statistics-cor**

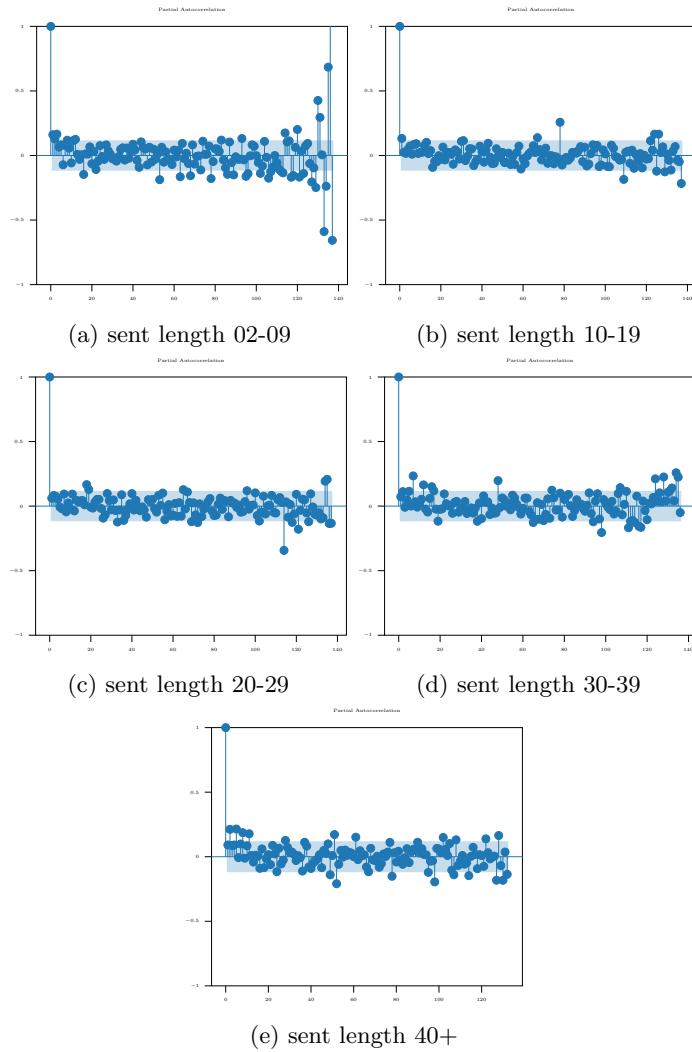
sent length 02-09 - Correlation: 0.4091018560679269  
sent length 10-19 - Correlation: 0.6333402717839867  
sent length 20-29 - Correlation: 0.28116357007789555  
sent length 30-39 - Correlation: -0.010381598317243486  
sent length 40+ - Correlation: -0.12832663922451376

## 2.12 dependency distance entropy11

### 2.12.1 Statistics-acf



### 2.12.2 Statistics-pacf

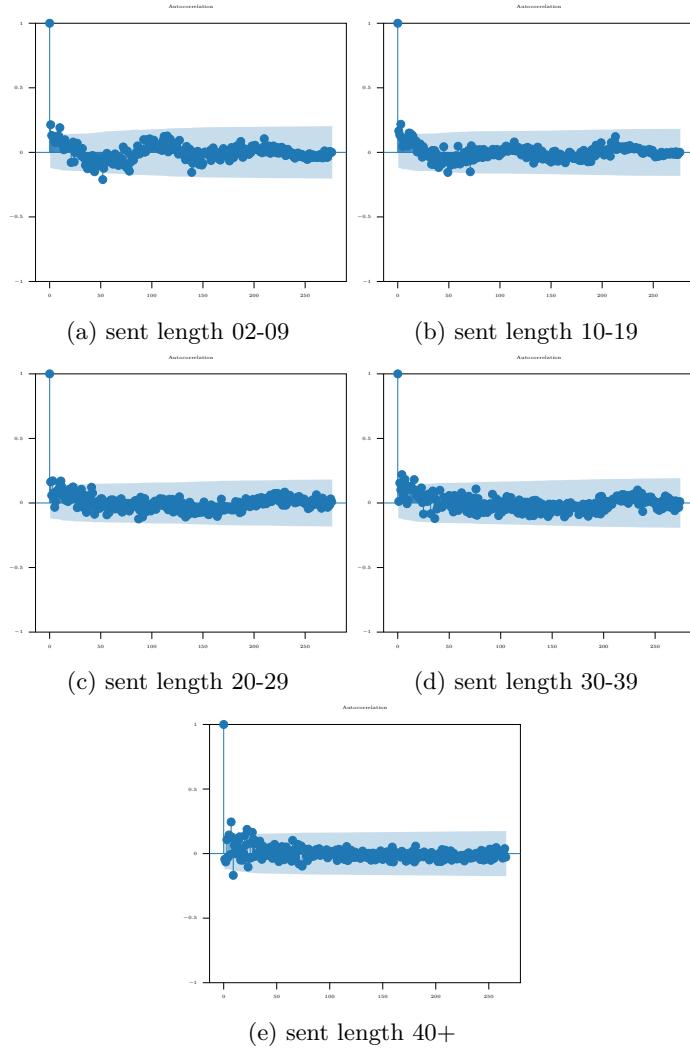


### **2.12.3 Statistics-cor**

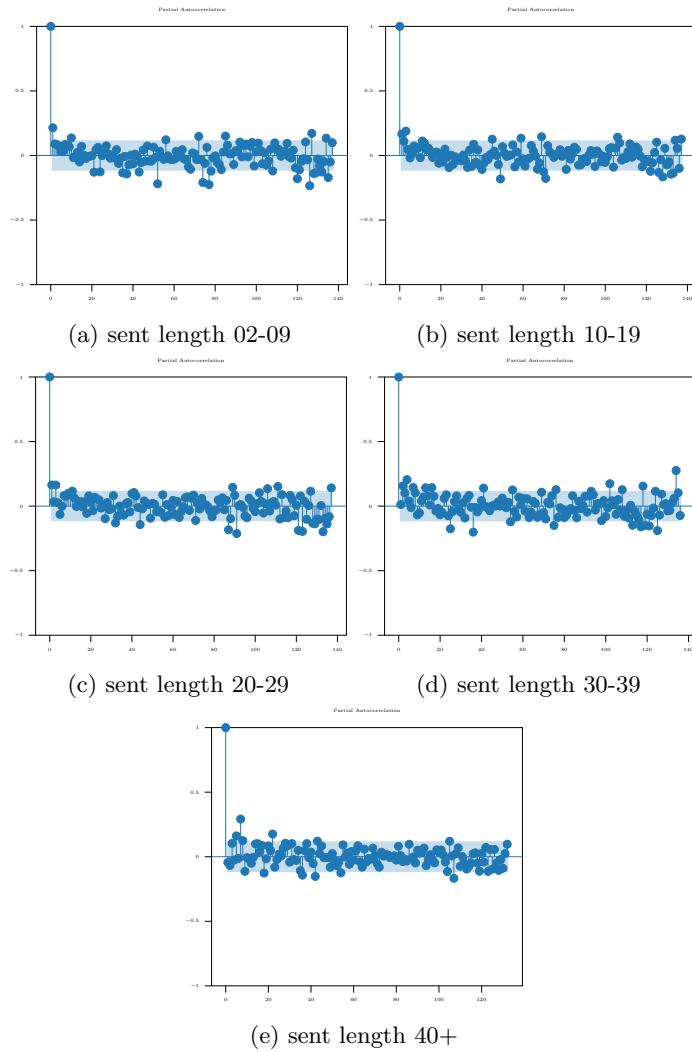
sent length 02-09 - Correlation: 0.061792443212615844  
sent length 10-19 - Correlation: -0.21863422204109687  
sent length 20-29 - Correlation: -0.15234692792645127  
sent length 30-39 - Correlation: -0.2178012354086624  
sent length 40+ - Correlation: -0.3569555655968191

## 2.13 ratio arcs adjacent tokens12

### 2.13.1 Statistics-acf



### 2.13.2 Statistics-pacf

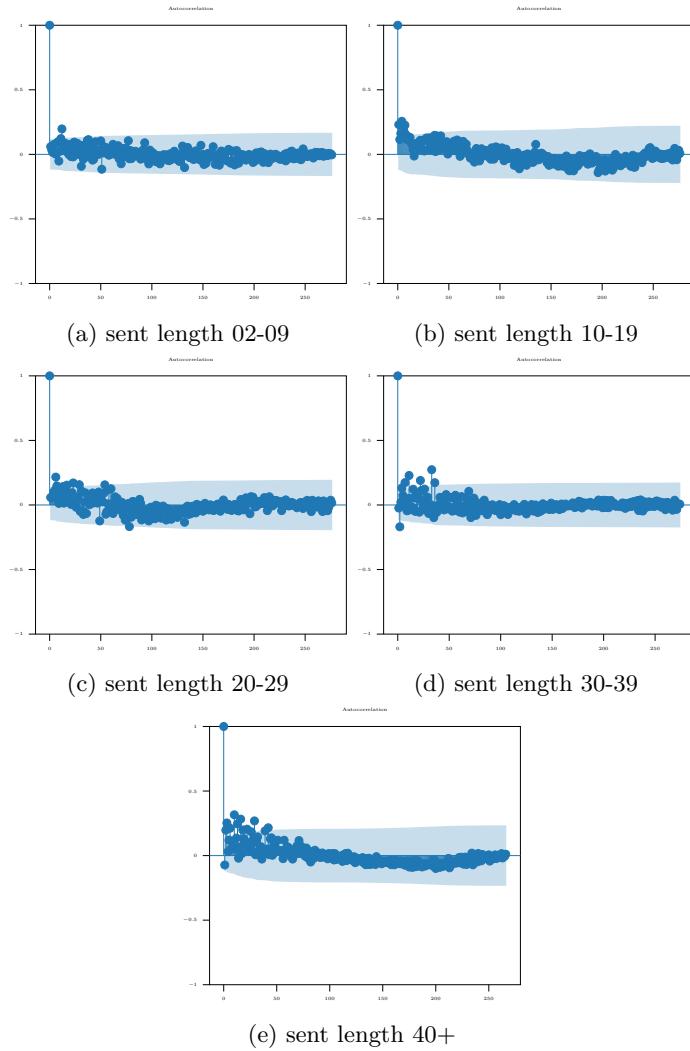


### **2.13.3 Statistics-cor**

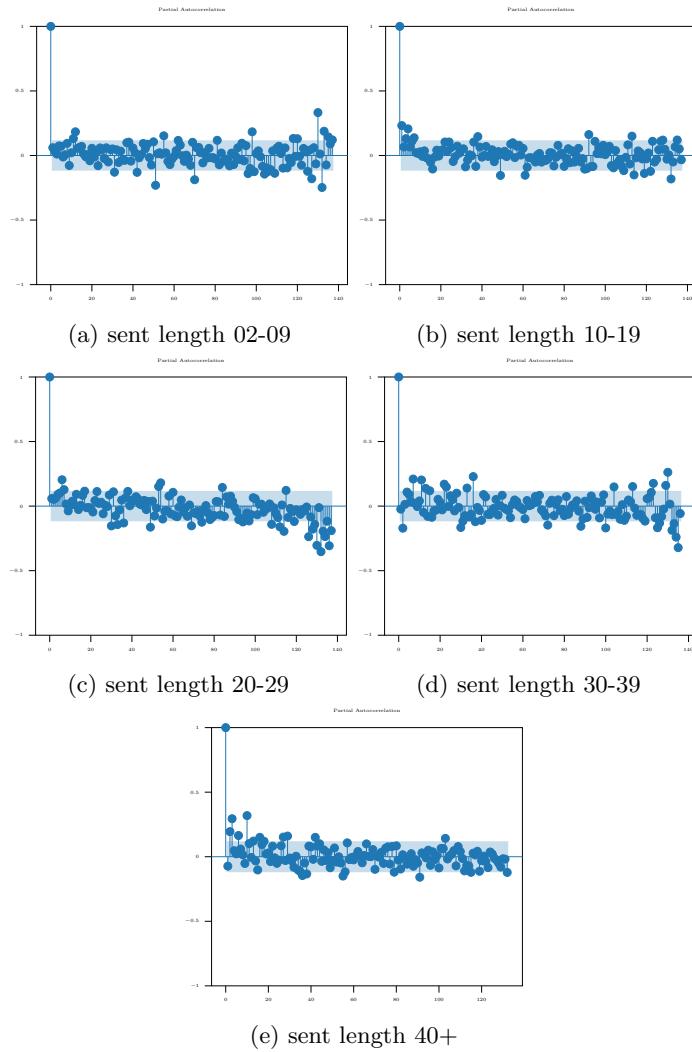
sent length 02-09 - Correlation: -0.1361395095311734  
sent length 10-19 - Correlation: -0.043178469231316116  
sent length 20-29 - Correlation: 0.07504817903903904  
sent length 30-39 - Correlation: 0.13442136549715922  
sent length 40+ - Correlation: 0.2264229816328378

## 2.14 ratio arcs distances occ once13

### 2.14.1 Statistics-acf



## 2.14.2 Statistics-pacf

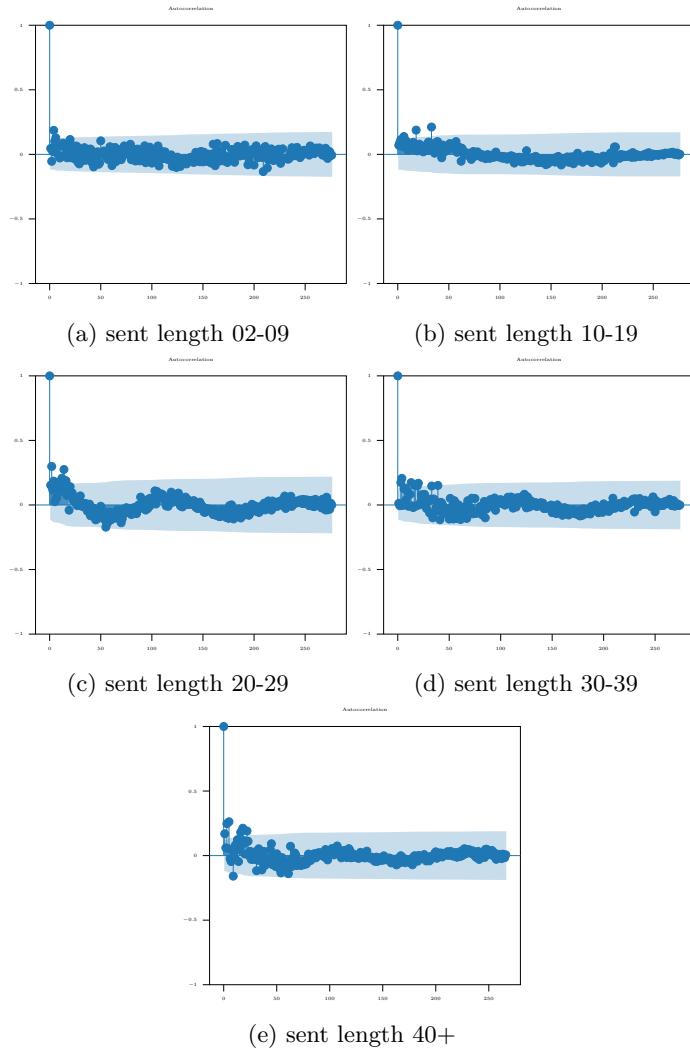


### **2.14.3 Statistics-cor**

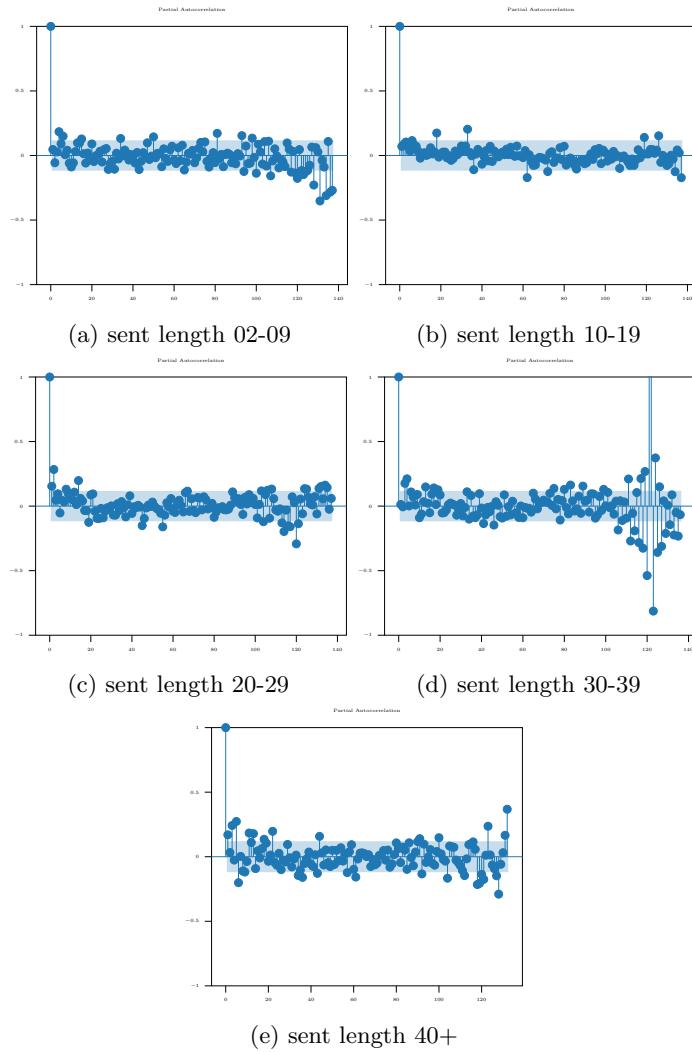
sent length 02-09 - Correlation: -0.22234090362399073  
sent length 10-19 - Correlation: -0.3523526856000176  
sent length 20-29 - Correlation: -0.11905530640995361  
sent length 30-39 - Correlation: -0.10497777137469406  
sent length 40+ - Correlation: -0.37748965298853276

## 2.15 imbalance index14

### 2.15.1 Statistics-acf



## 2.15.2 Statistics-pacf

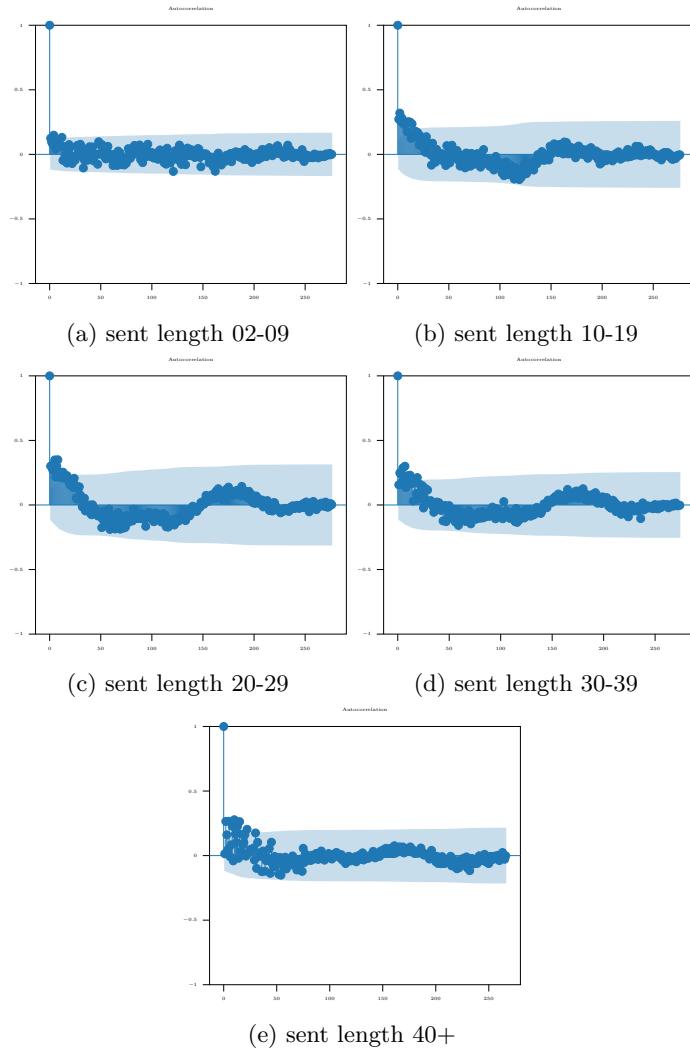


### **2.15.3 Statistics-cor**

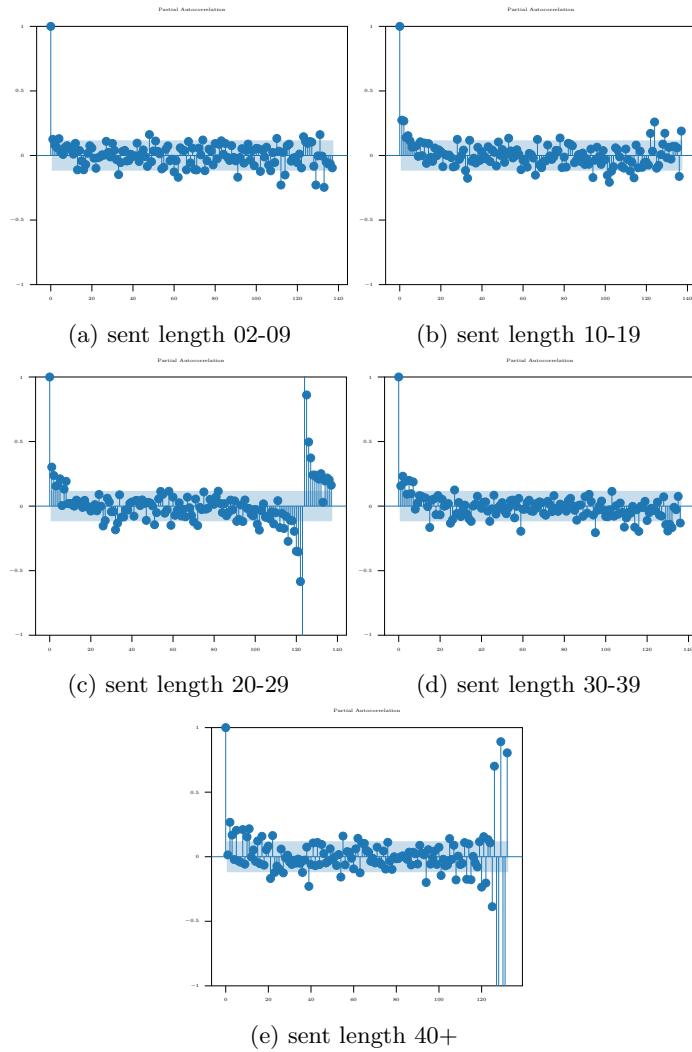
sent length 02-09 - Correlation: 0.010245700928976564  
sent length 10-19 - Correlation: -0.2449774023026458  
sent length 20-29 - Correlation: 0.1387565722277111  
sent length 30-39 - Correlation: 0.11938024503561967  
sent length 40+ - Correlation: 0.02852938339413047

## 2.16 ratio of leafs15

### 2.16.1 Statistics-acf



## 2.16.2 Statistics-pacf

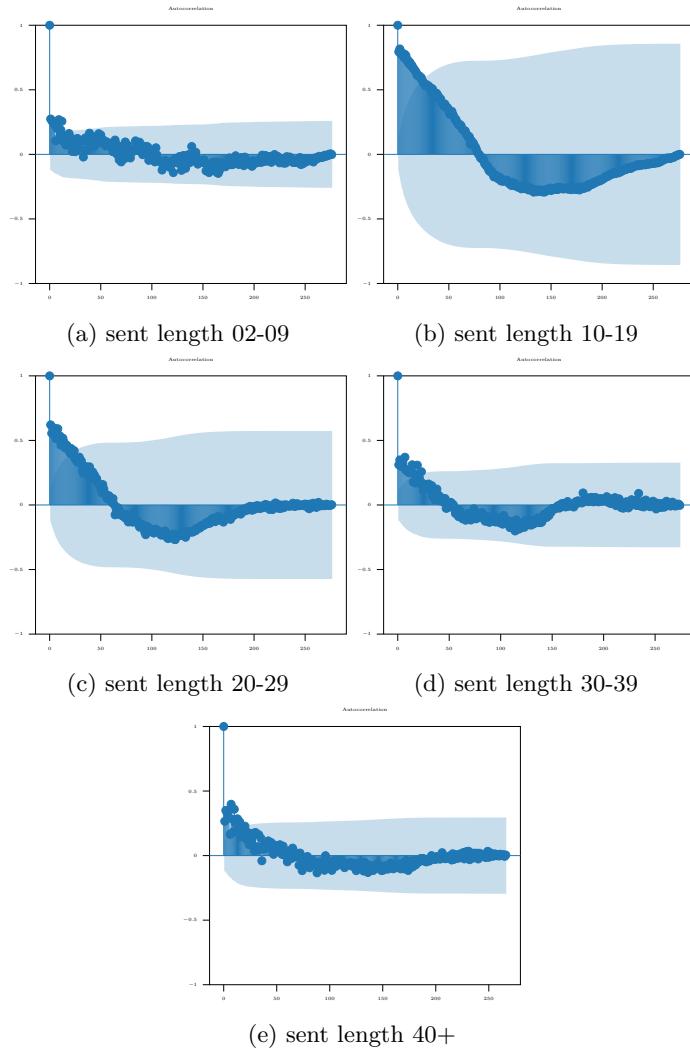


### **2.16.3 Statistics-cor**

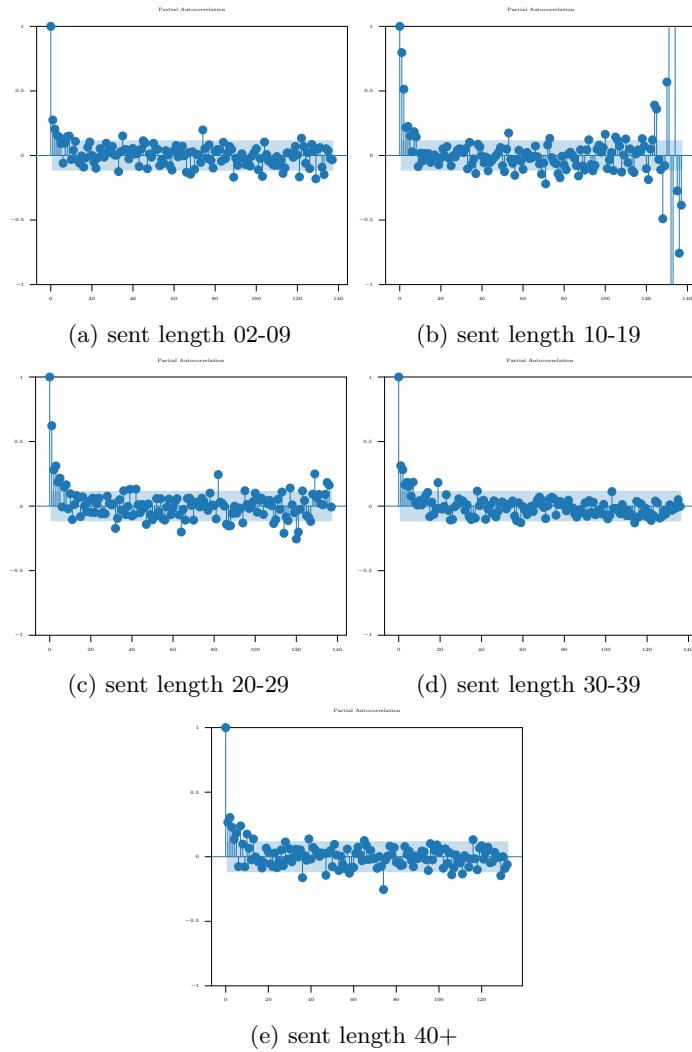
sent length 02-09 - Correlation: 0.14801524646620037  
sent length 10-19 - Correlation: 0.1822168418919544  
sent length 20-29 - Correlation: -0.018838598543042626  
sent length 30-39 - Correlation: -0.11898297411141233  
sent length 40+ - Correlation: -0.24950301219236568

## 2.17 number of leafs16

### 2.17.1 Statistics-acf



## 2.17.2 Statistics-pacf

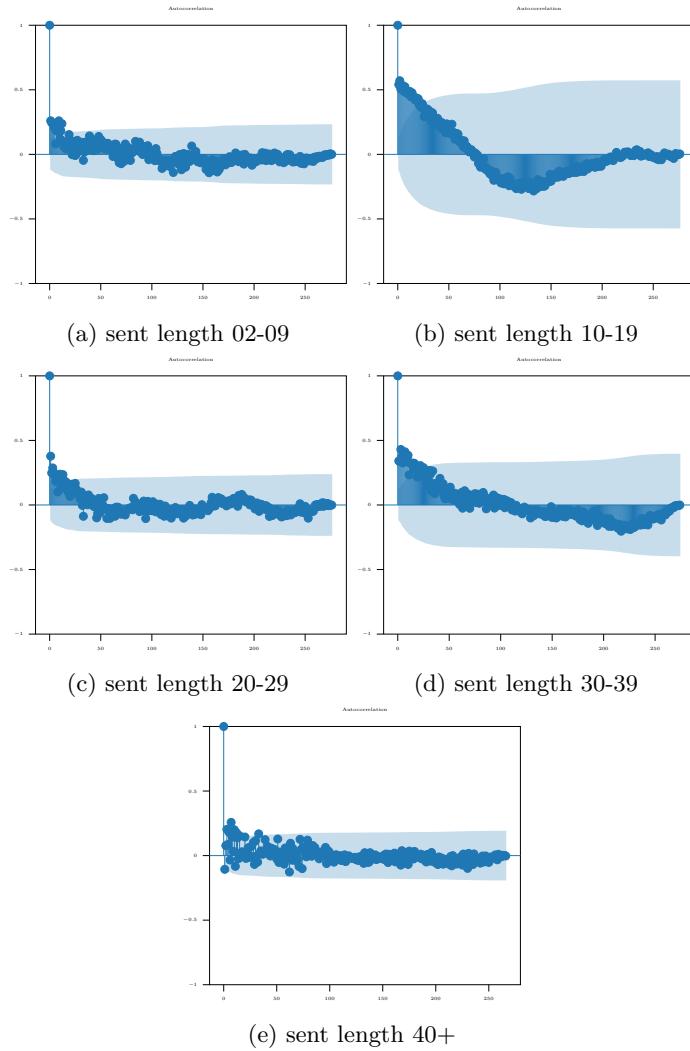


### **2.17.3 Statistics-cor**

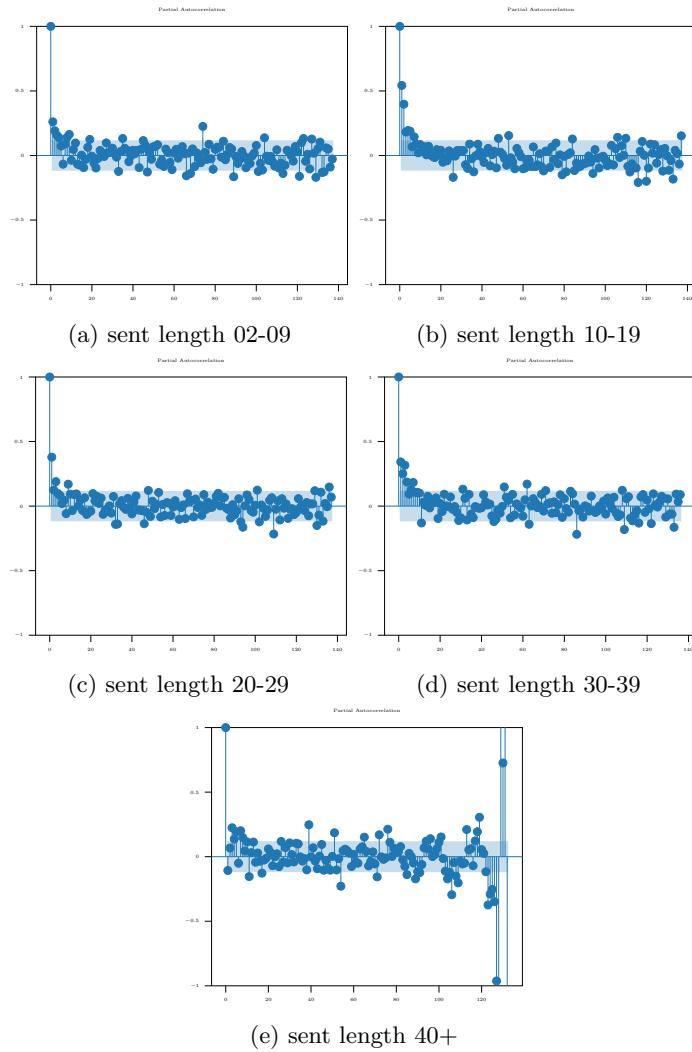
sent length 02-09 - Correlation: 0.40896635549091626  
sent length 10-19 - Correlation: 0.7186607844709813  
sent length 20-29 - Correlation: 0.4351739014679087  
sent length 30-39 - Correlation: 0.15615397877440698  
sent length 40+ - Correlation: 0.3214674402033359

## 2.18 width of tree19

### 2.18.1 Statistics-acf



## 2.18.2 Statistics-pacf

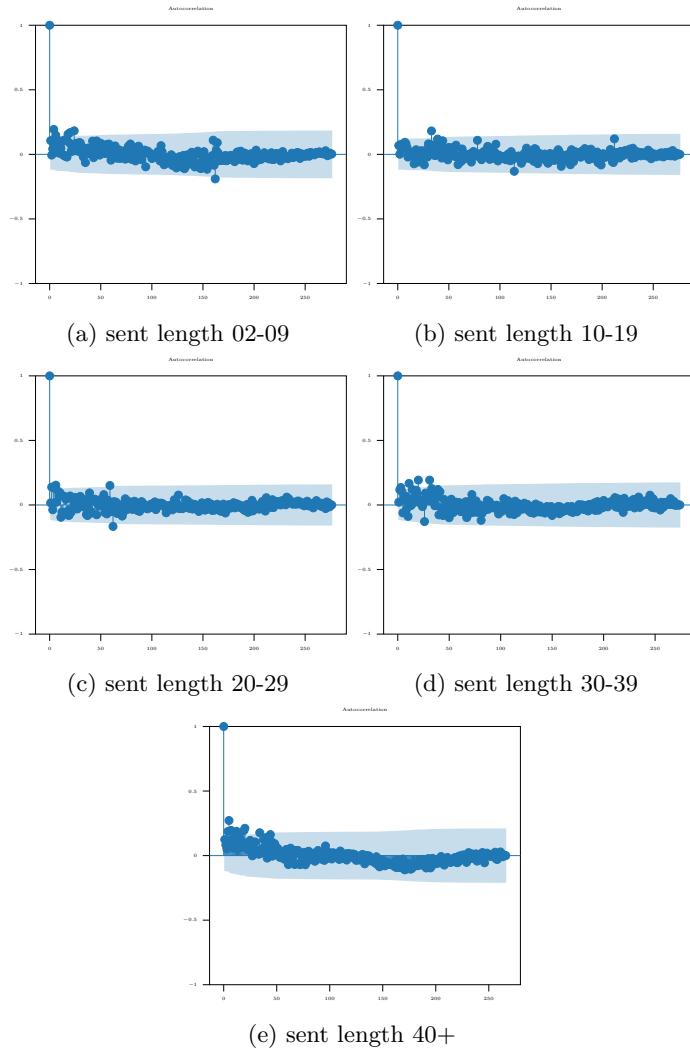


### **2.18.3 Statistics-cor**

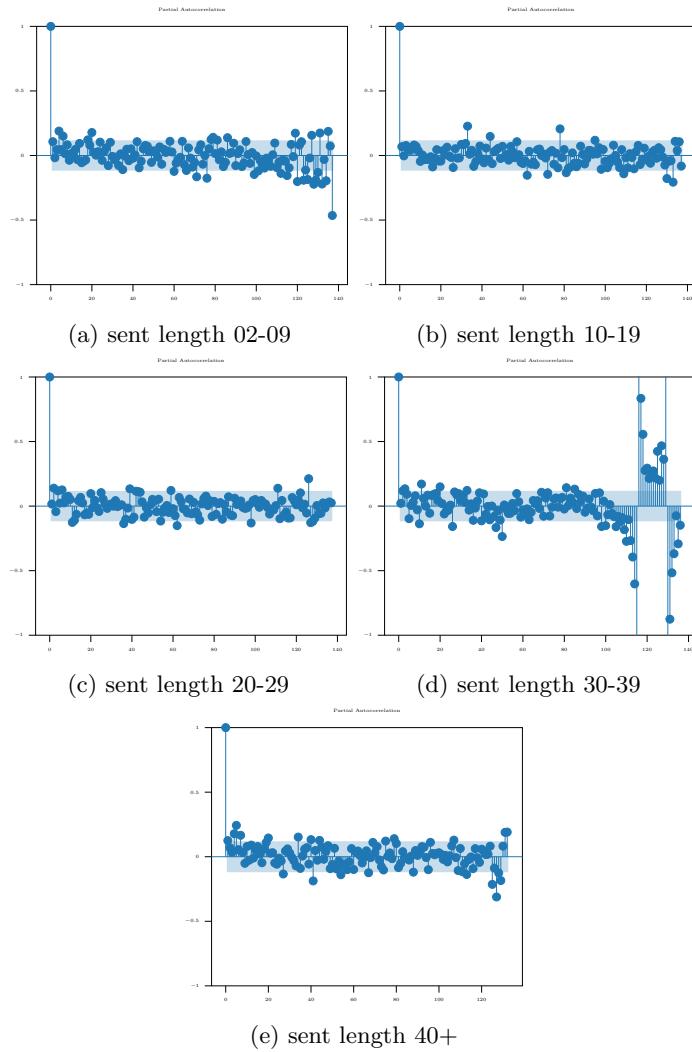
sent length 02-09 - Correlation: 0.3636253605397354  
sent length 10-19 - Correlation: 0.47914283379742767  
sent length 20-29 - Correlation: -0.2939375273699079  
sent length 30-39 - Correlation: -0.5838891844864674  
sent length 40+ - Correlation: -0.2946008838403724

## 2.19 lowest lv max width20

### 2.19.1 Statistics-acf



## 2.19.2 Statistics-pacf

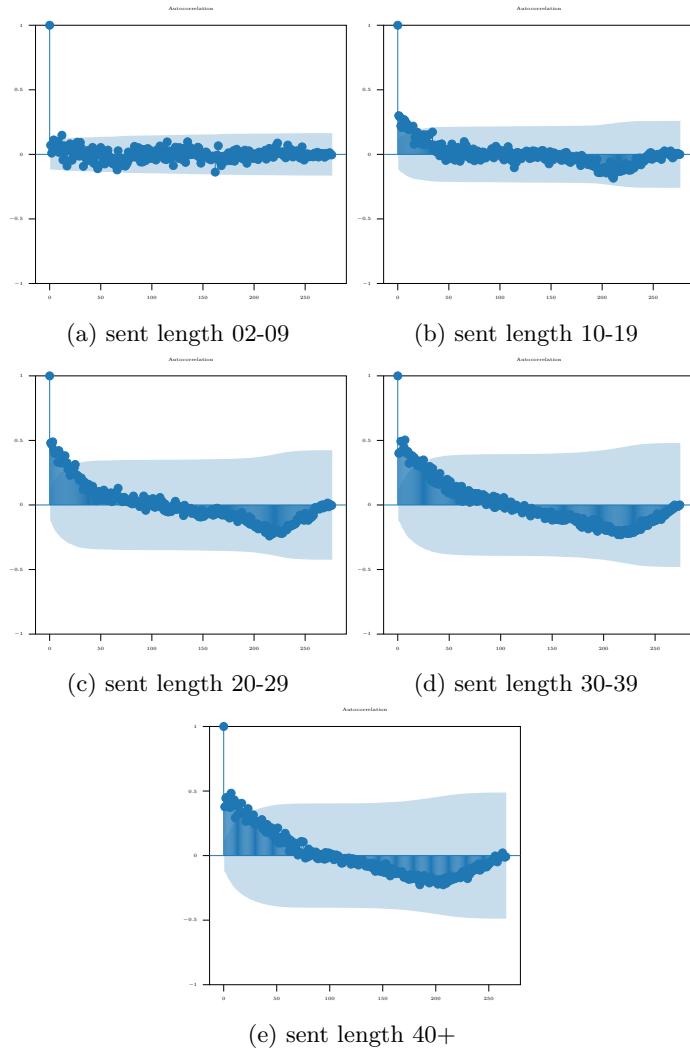


### **2.19.3 Statistics-cor**

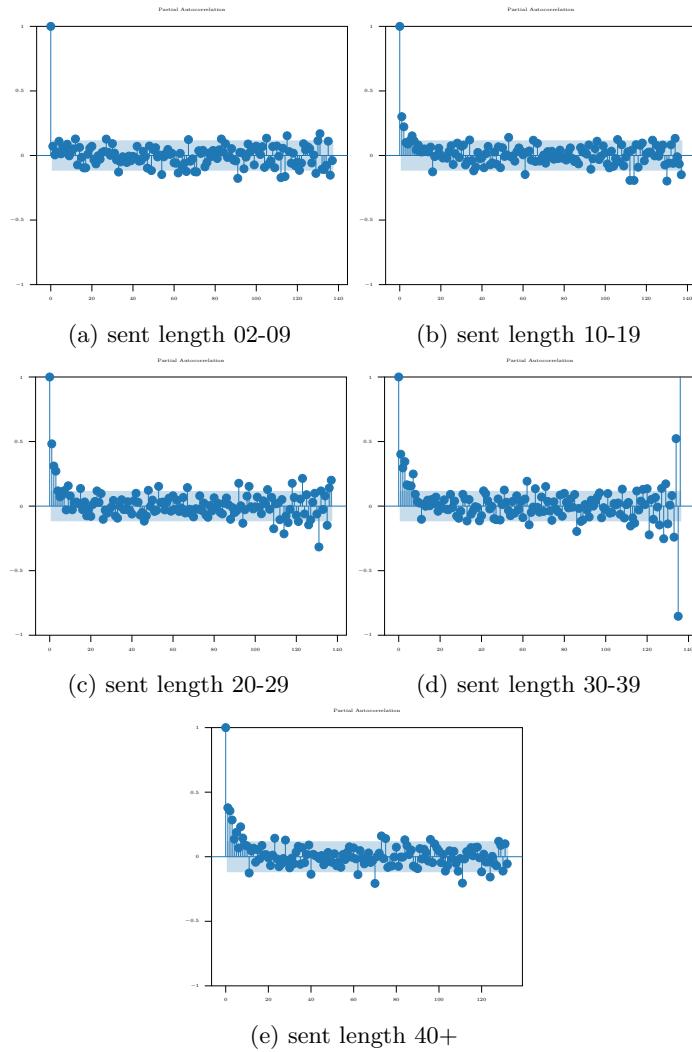
sent length 02-09 - Correlation: -0.22842634801803152  
sent length 10-19 - Correlation: -0.12076958647641547  
sent length 20-29 - Correlation: -0.0037391882923771456  
sent length 30-39 - Correlation: 0.06848209493085046  
sent length 40+ - Correlation: 0.32086740298084937

## 2.20 ratio vertices belonging latter level21

### 2.20.1 Statistics-acf



## 2.20.2 Statistics-pacf

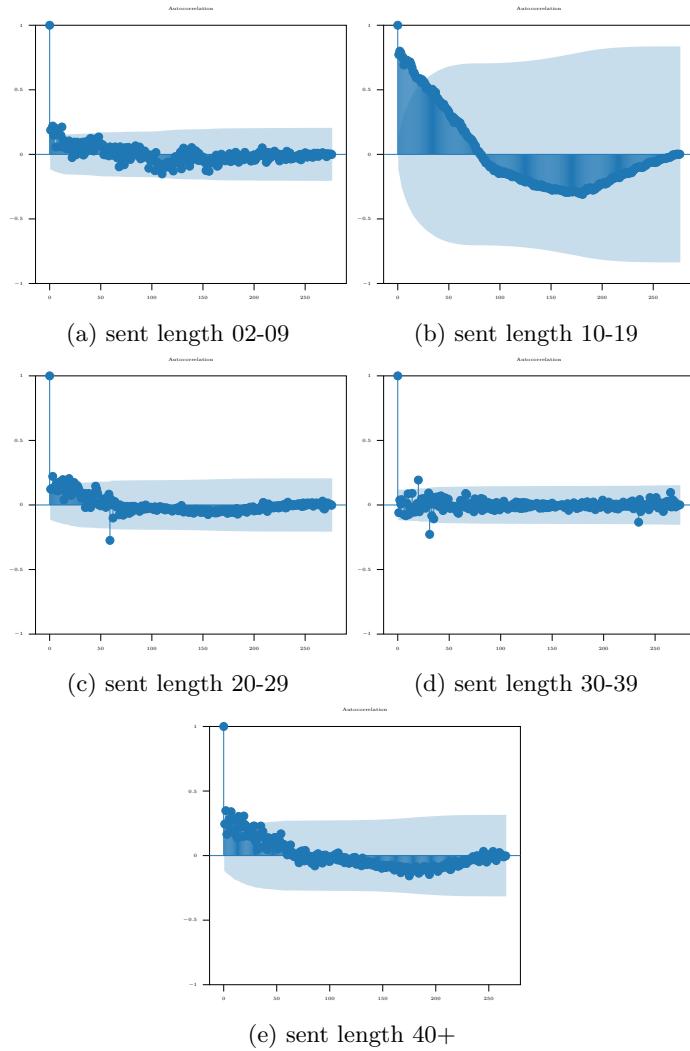


### **2.20.3 Statistics-cor**

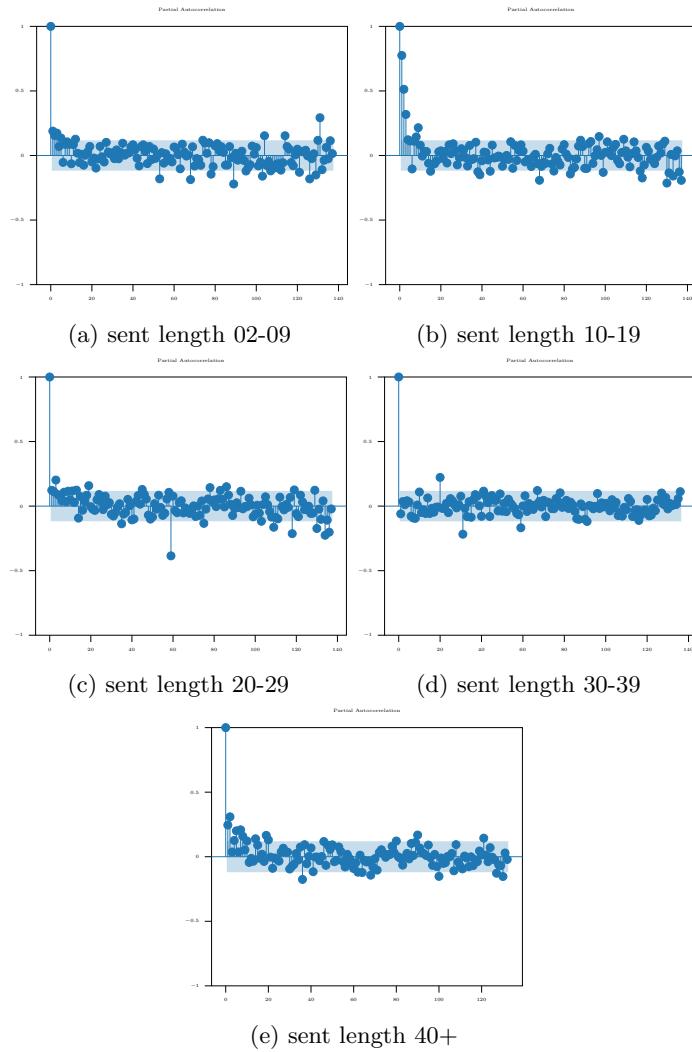
sent length 02-09 - Correlation: -0.036847195777787216  
sent length 10-19 - Correlation: -0.40738983001518575  
sent length 20-29 - Correlation: -0.5943713971098397  
sent length 30-39 - Correlation: -0.6525535327238575  
sent length 40+ - Correlation: -0.6389692306772128

## 2.21 Hirsch index22

### 2.21.1 Statistics-acf



## 2.21.2 Statistics-pacf

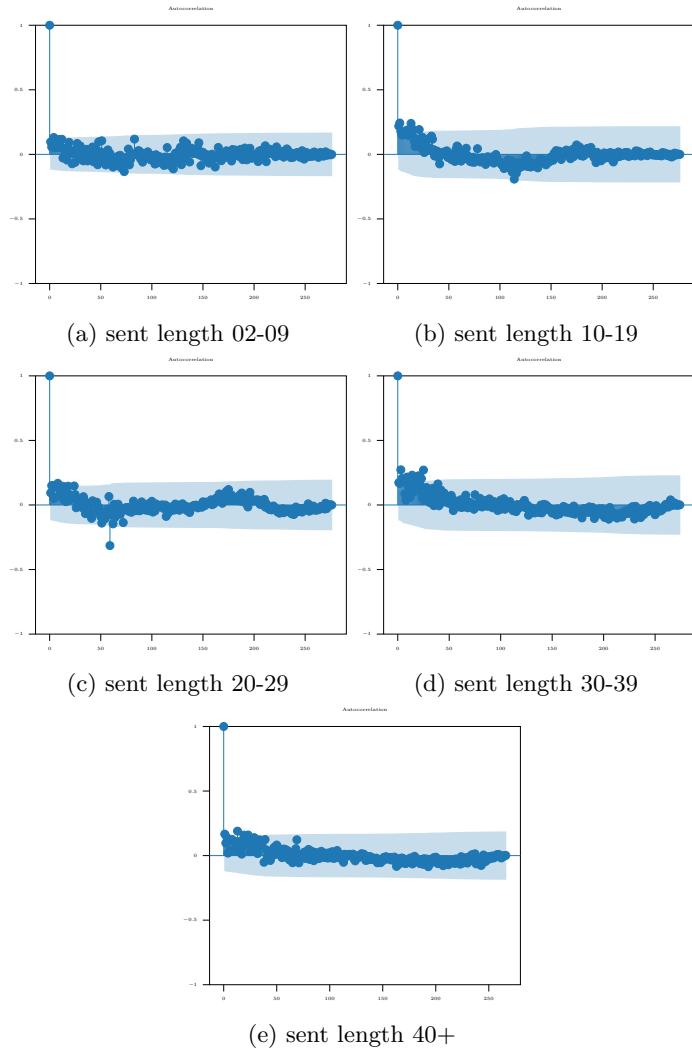


### **2.21.3 Statistics-cor**

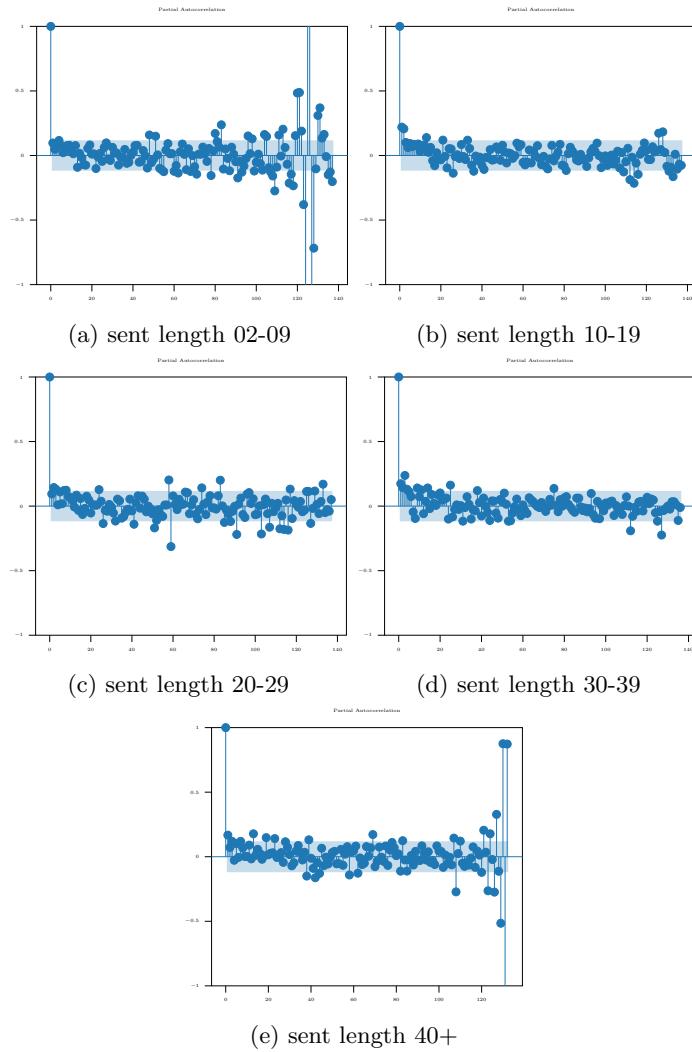
sent length 02-09 - Correlation: 0.2609614333197415  
sent length 10-19 - Correlation: 0.7353774041682771  
sent length 20-29 - Correlation: 0.2617764390702403  
sent length 30-39 - Correlation: 0.06939409325017935  
sent length 40+ - Correlation: 0.44731313486378377

## 2.22 ratio vertices contributing h index23

### 2.22.1 Statistics-acf



## 2.22.2 Statistics-pacf

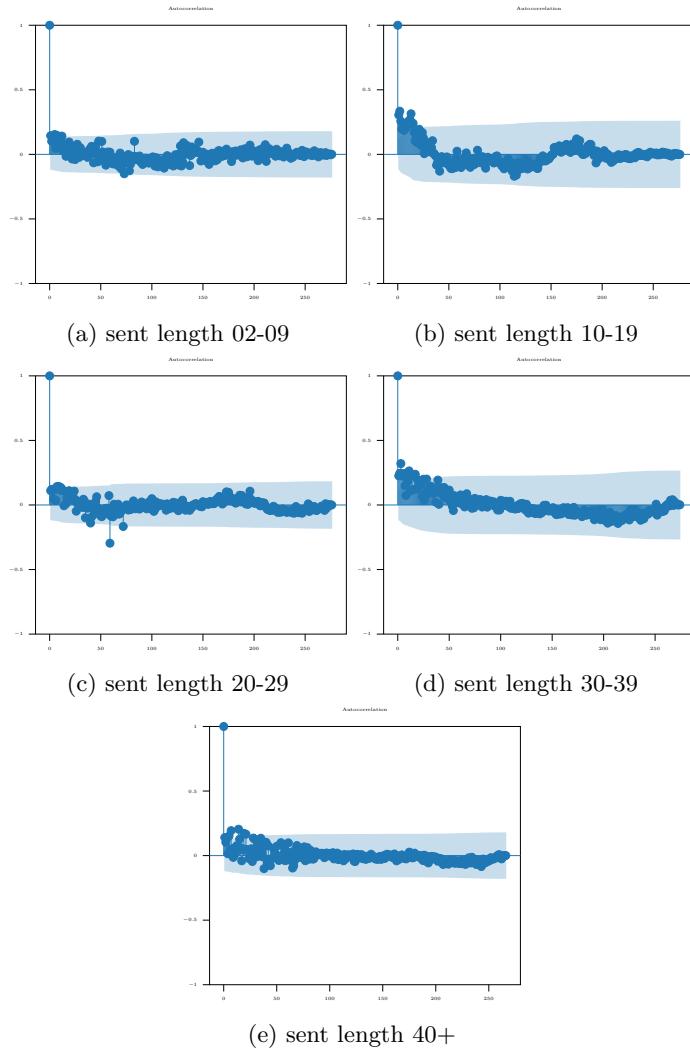


### **2.22.3 Statistics-cor**

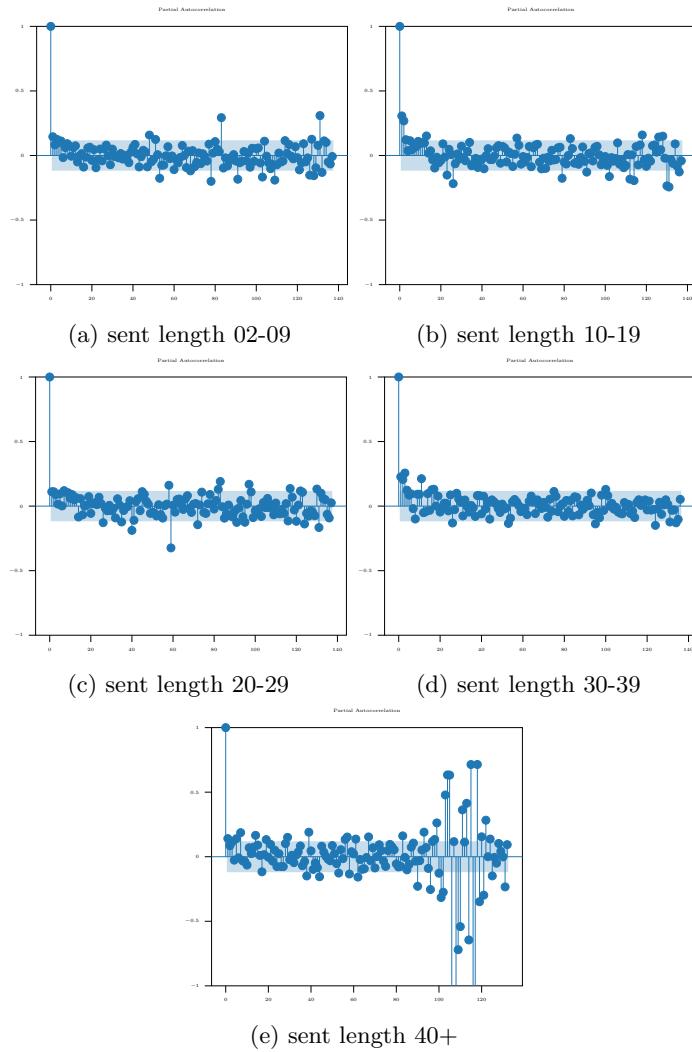
sent length 02-09 - Correlation: 0.07658153773732453  
sent length 10-19 - Correlation: 0.19350961483169388  
sent length 20-29 - Correlation: -0.18450532447432902  
sent length 30-39 - Correlation: -0.38136138168416966  
sent length 40+ - Correlation: -0.33119795394413687

## 2.23 relative h index24

### 2.23.1 Statistics-acf



### 2.23.2 Statistics-pacf



### **2.23.3 Statistics-cor**

sent length 02-09 - Correlation: -0.0032431414715822188  
sent length 10-19 - Correlation: 0.1546651677690312  
sent length 20-29 - Correlation: -0.20455763597187118  
sent length 30-39 - Correlation: -0.4423808782460452  
sent length 40+ - Correlation: -0.30936900018912966