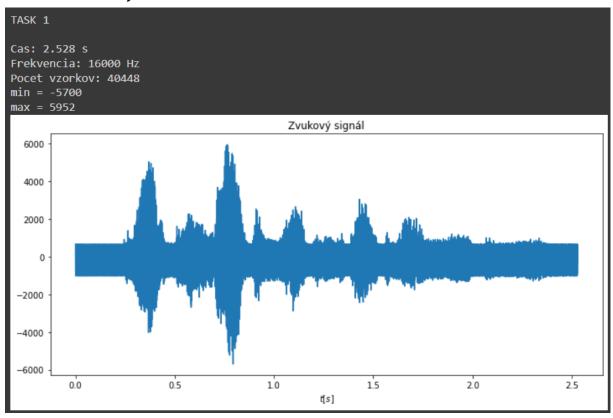
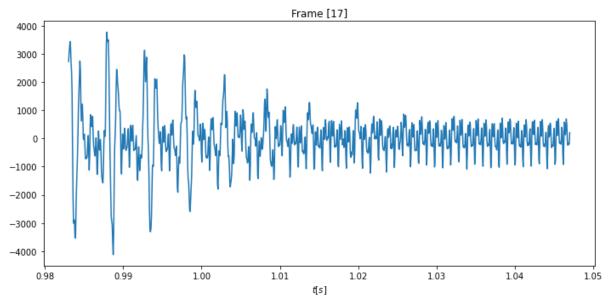
# ISS Projekt

Adrián Horváth xhorva14 7.1.2022

## 1. Základy

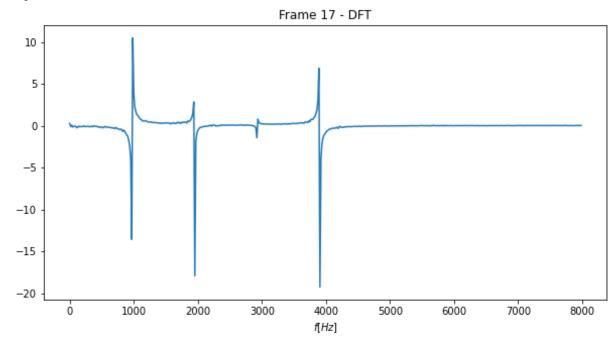


# 2. Predspracovanie a rámce

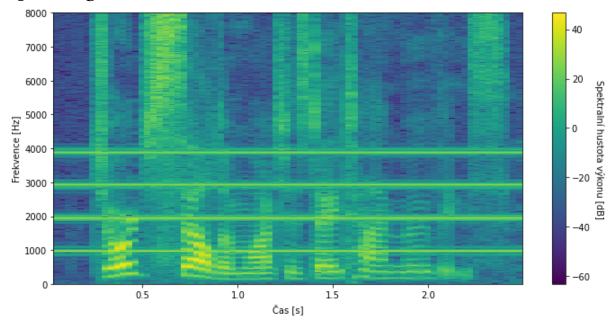


#### 3. DFT

Moja implementácia sa síce podoba knižnej implementácii ale je pomalá tak ju ďalej nepoužívam.



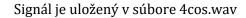
#### 4. Spektrogram

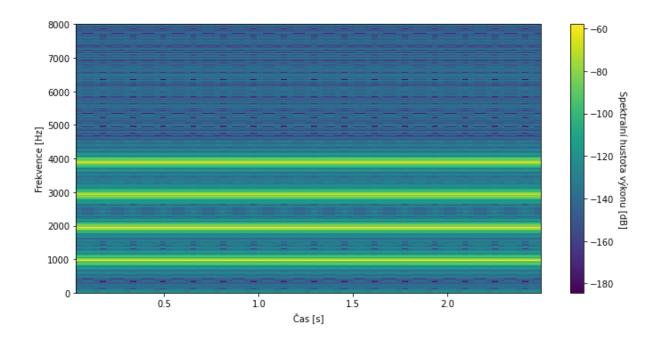


## 5. Určenie rušivých frekvencii

Rušivé frekvencie som podľa spektrogramu odhadol na násobky okolo čísla 980Hz. No pri čistení som zistil že presná frekvencia je 975Hz a jej násobky (1950Hz, 2925Hz a 3900Hz).

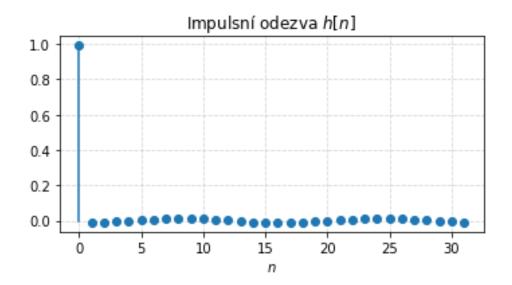
## 6. Generovanie signálu

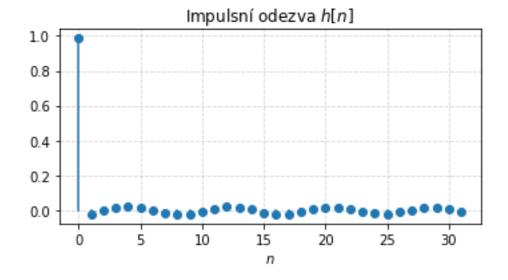


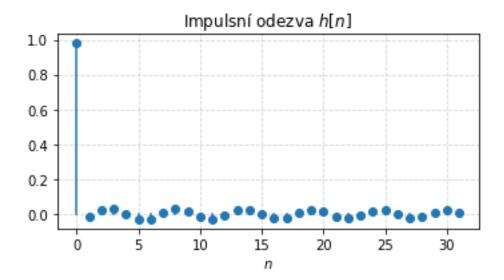


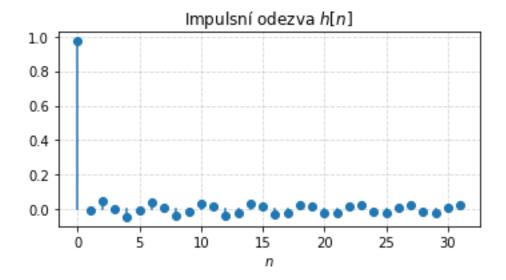
#### 7. Čistiaci filter

Výsledný filter sa skladá zo 4 filtrov pásmovej zádrže



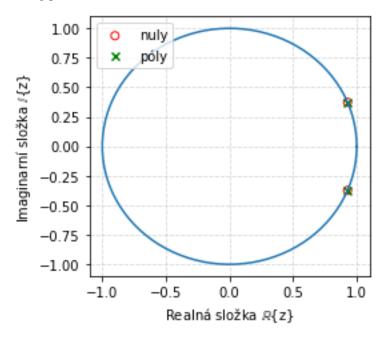


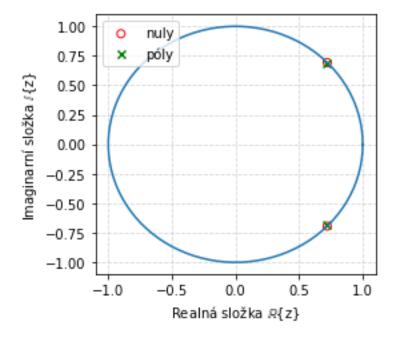


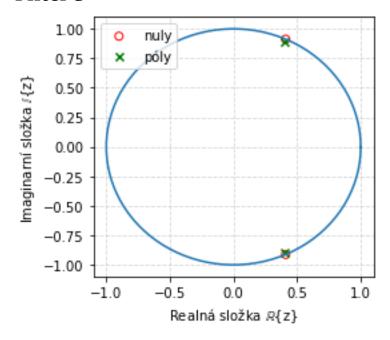


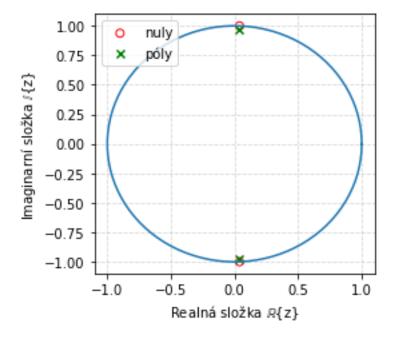
# 8. Nulové body a póly

## • Filter 1



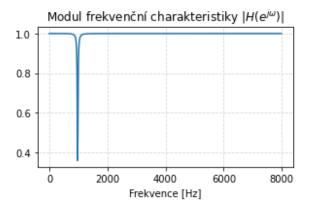


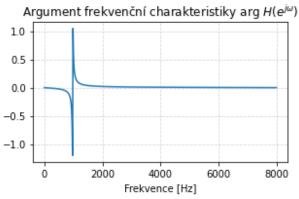




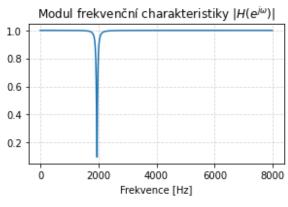
#### 9. Frekvenčná charakteristika

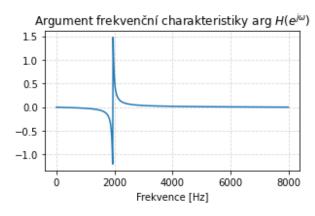
#### • Filter 1

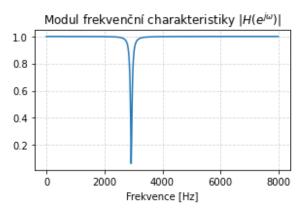


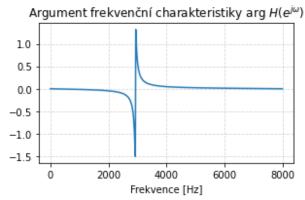


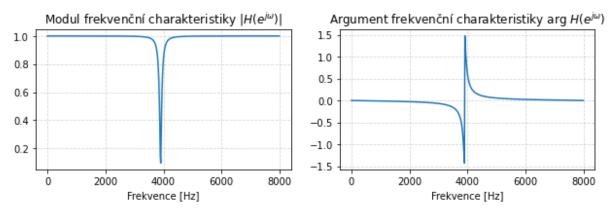
#### • Filter 2











#### 10. Filtrácia

Výsledný signál je uložený v súbore clean\_bandstop.wav

