



# ODHALENÍ CHYBY V PLÁNU POMOCÍ 2D GAMA ANALÝZY (STŘEDOŠKOLSKÁ ODBORNÁ ČINNOST)

IVANA ŠIMANOVÁ

VEDOUCÍ PRÁCE – ING. TEREZA HANUŠOVÁ



## CÍLE

- Úspěšnost nalezení chyby v ozařovacím plánu pacienta

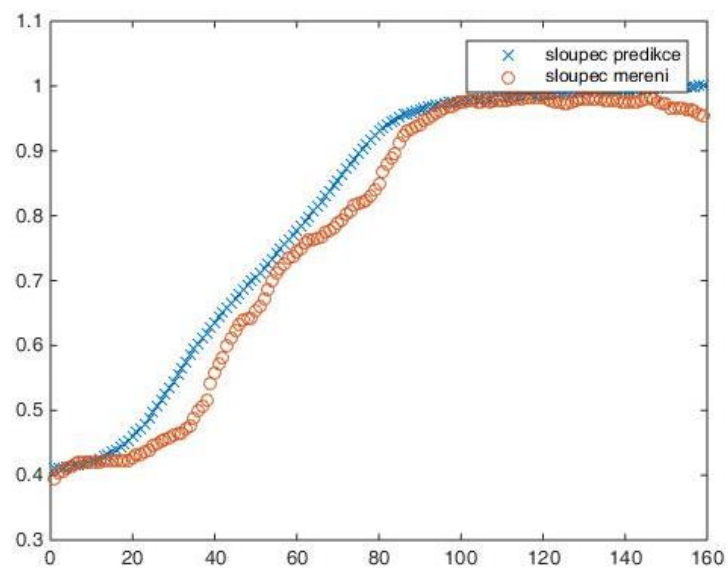
# POMŮCKY

- Radiochromické filmy GAFCHROMIC – EBT3
- Urychlovač Siemens Artiste Solution
- Skener Epson Perfection V700 Photo
- Program napsán v prostředí Matlab

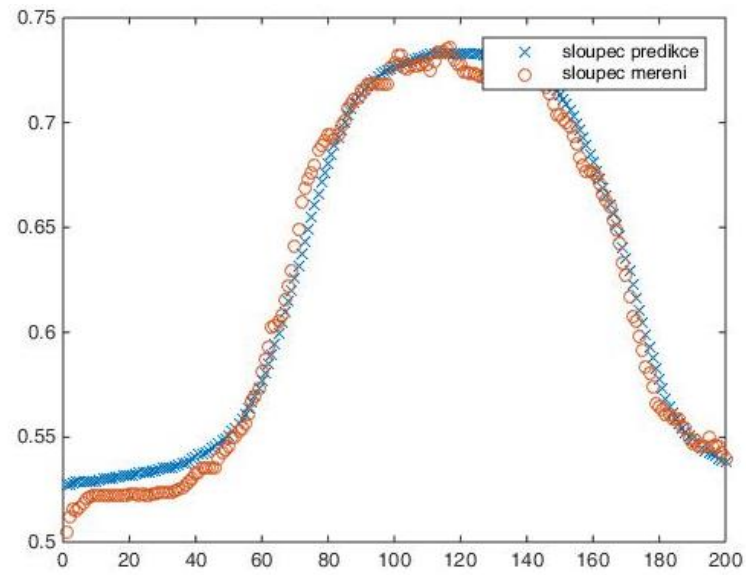
# OZAŘOVACÍ PLÁN

- Plán rakoviny prostaty
- Technika IMRT (posun 1 mm), metoda Step-and-shoot
- 100 cm od zdroje

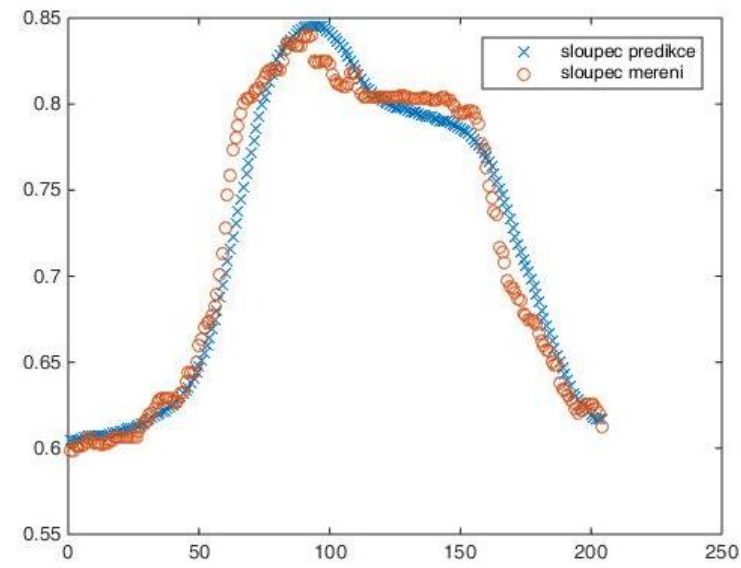
# SROVNÁNÍ PROFILŮ



Pole 2

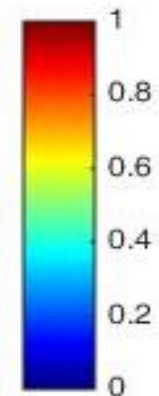
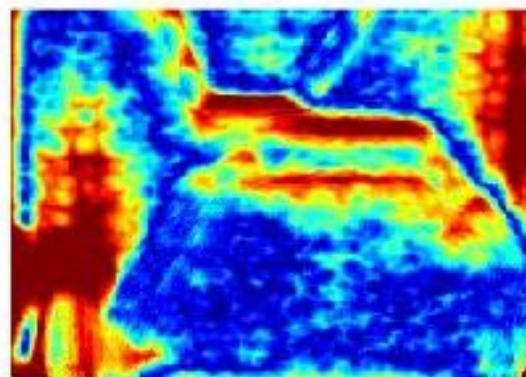
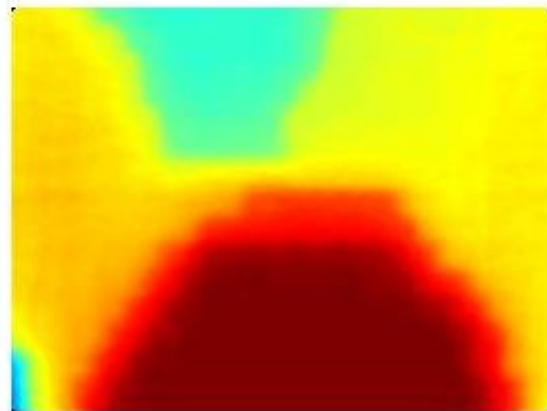
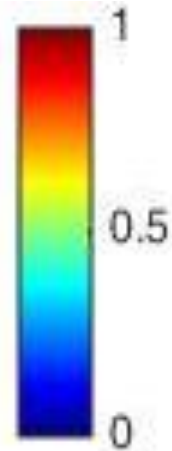
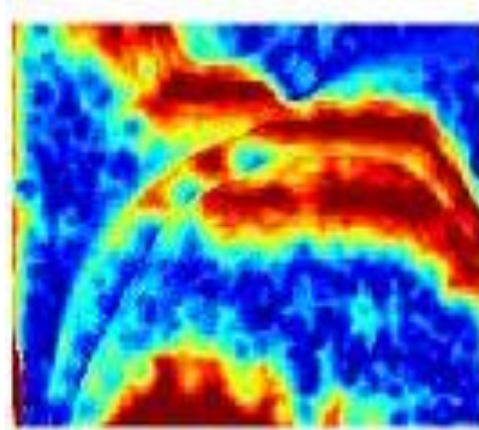
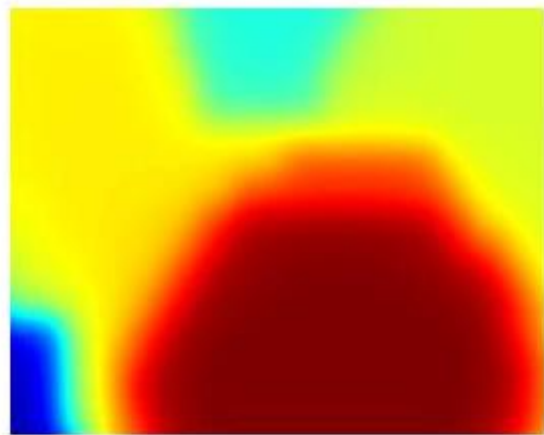


Pole 4



Pole 5

# POLE 2



Gama skóre (%)

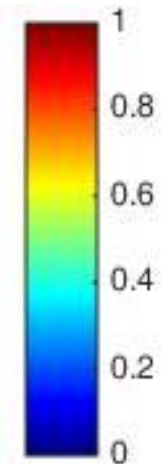
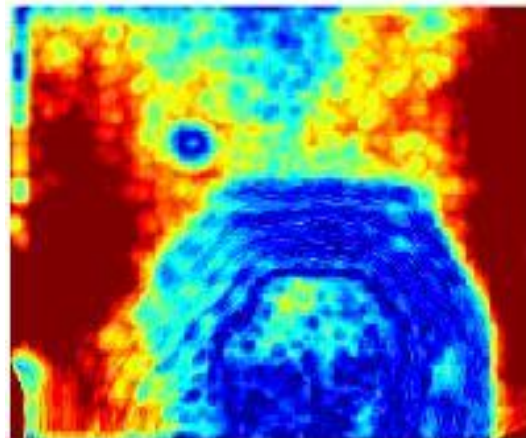
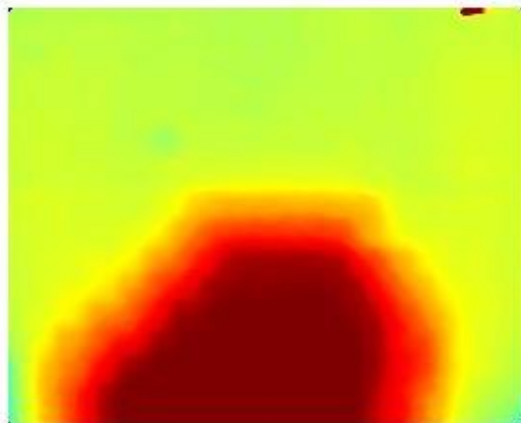
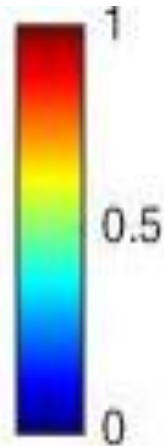
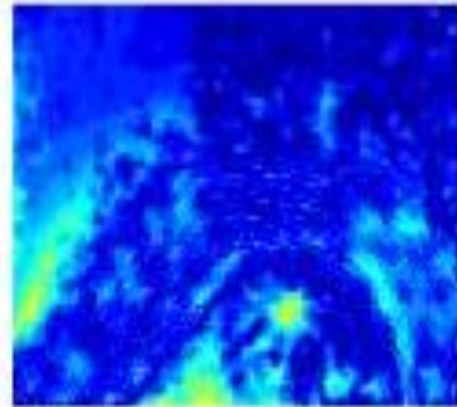
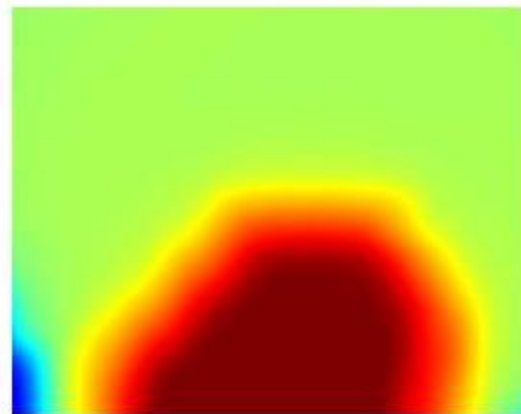
Původní plán

92,89

Posun lamel

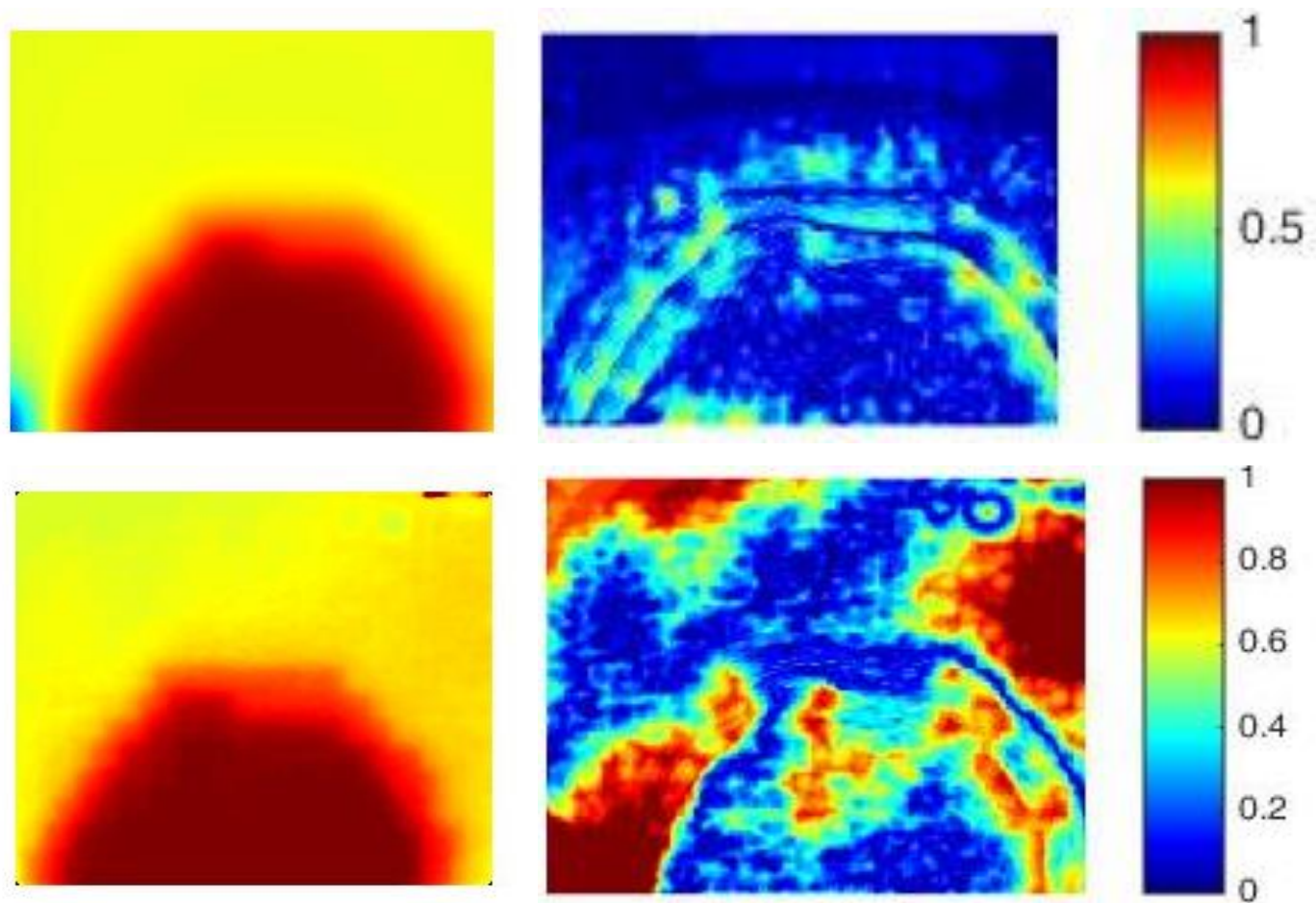
92,75

# POLE 4



Gama skóre (%)  
Původní plán      Posun lamel  
100                      81,98

# POLE 5



Gama skóre (%)  
Původní plán      Posun lamel  
100                      91,95



## ZÁVĚR

Pole	Gama skóre špatného plánu (%)
2	92,75
4	81,98
5	91,95

- Chyba se neprokázala ve 2 ze 3 případů = špatná verifikace, mírná kritéria



DĚKUJI ZA POZORNOST

