

FIG. 1: Plot of log-probability vs iterations for output

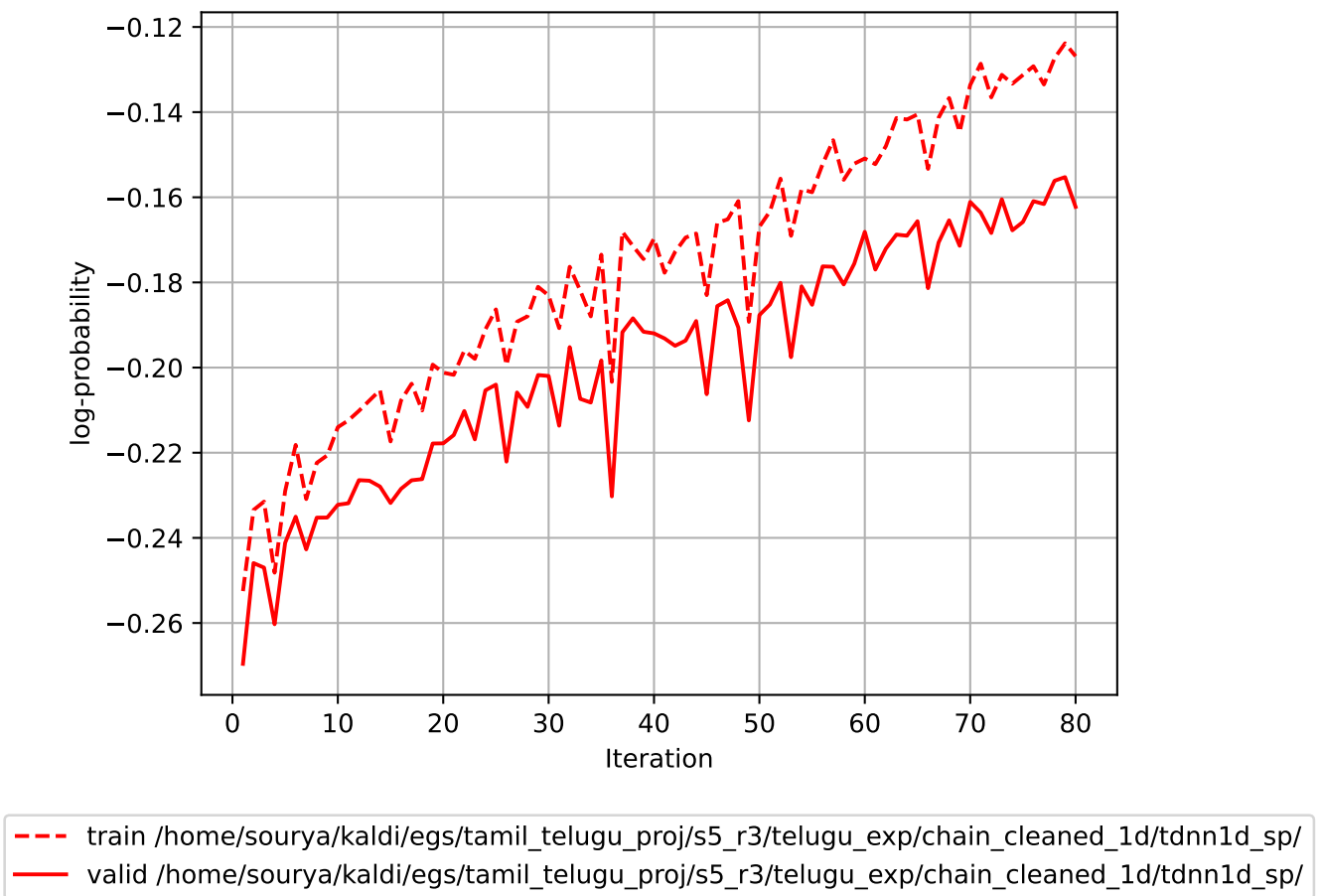
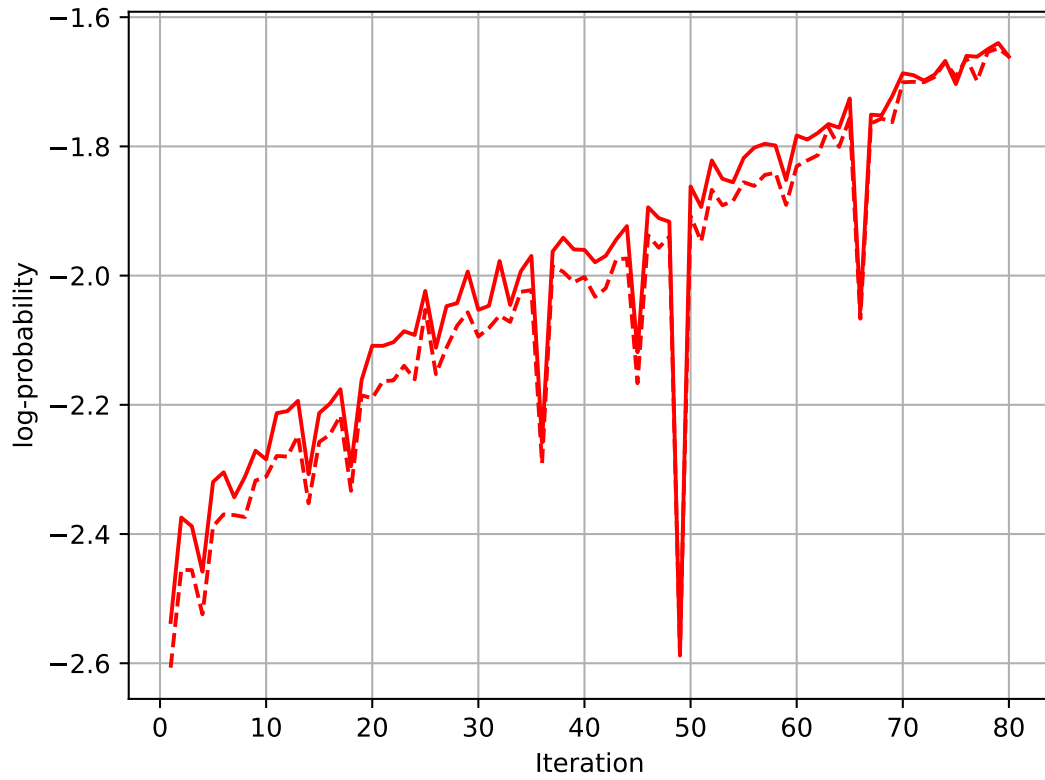
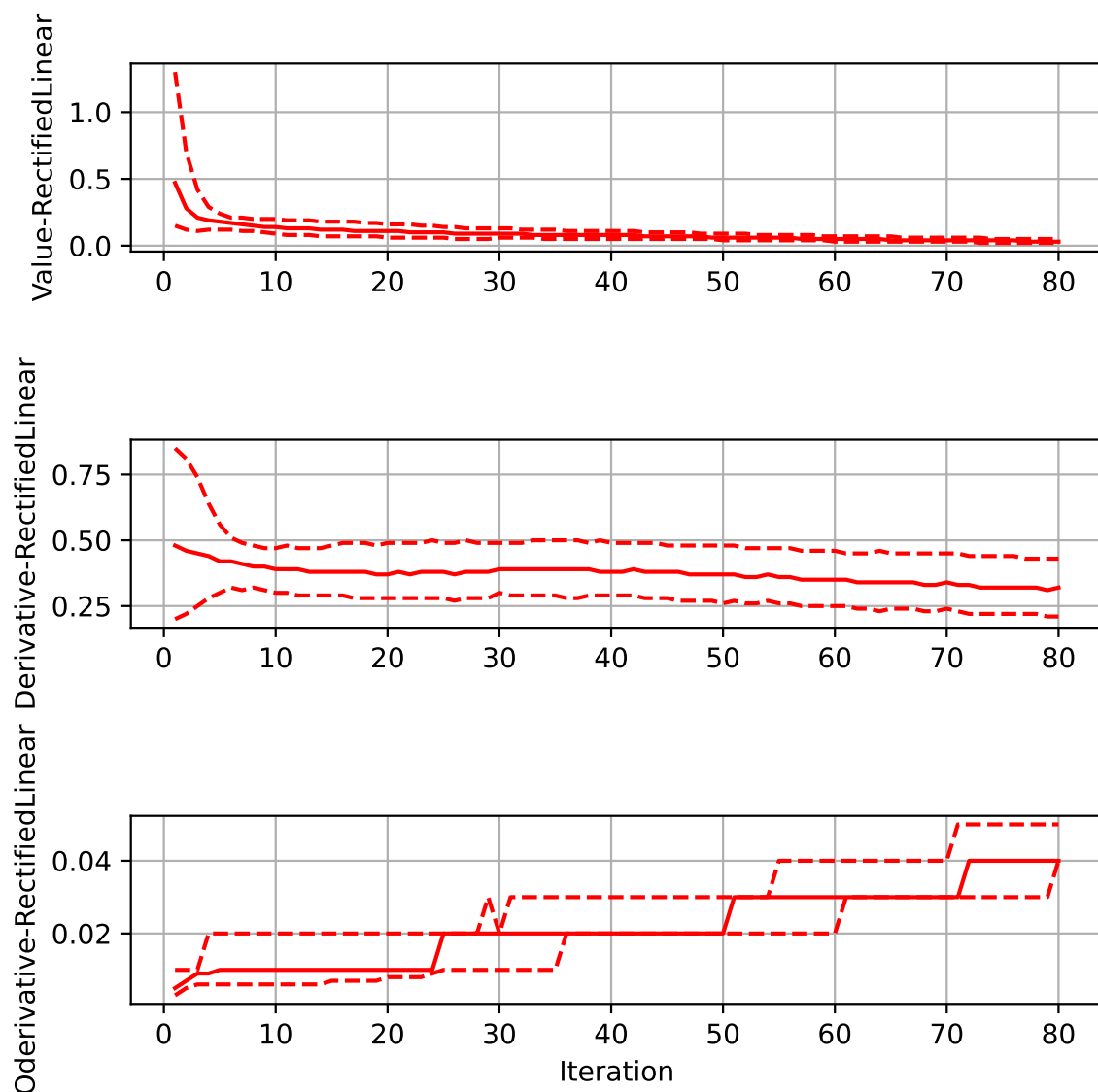


FIG. 2: Plot of log-probability vs iterations for output-xent



-- train /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/  
— valid /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 3: Per-dimension average-(value, derivative) and rms-oderivative percentiles for prefinal-chain.relu

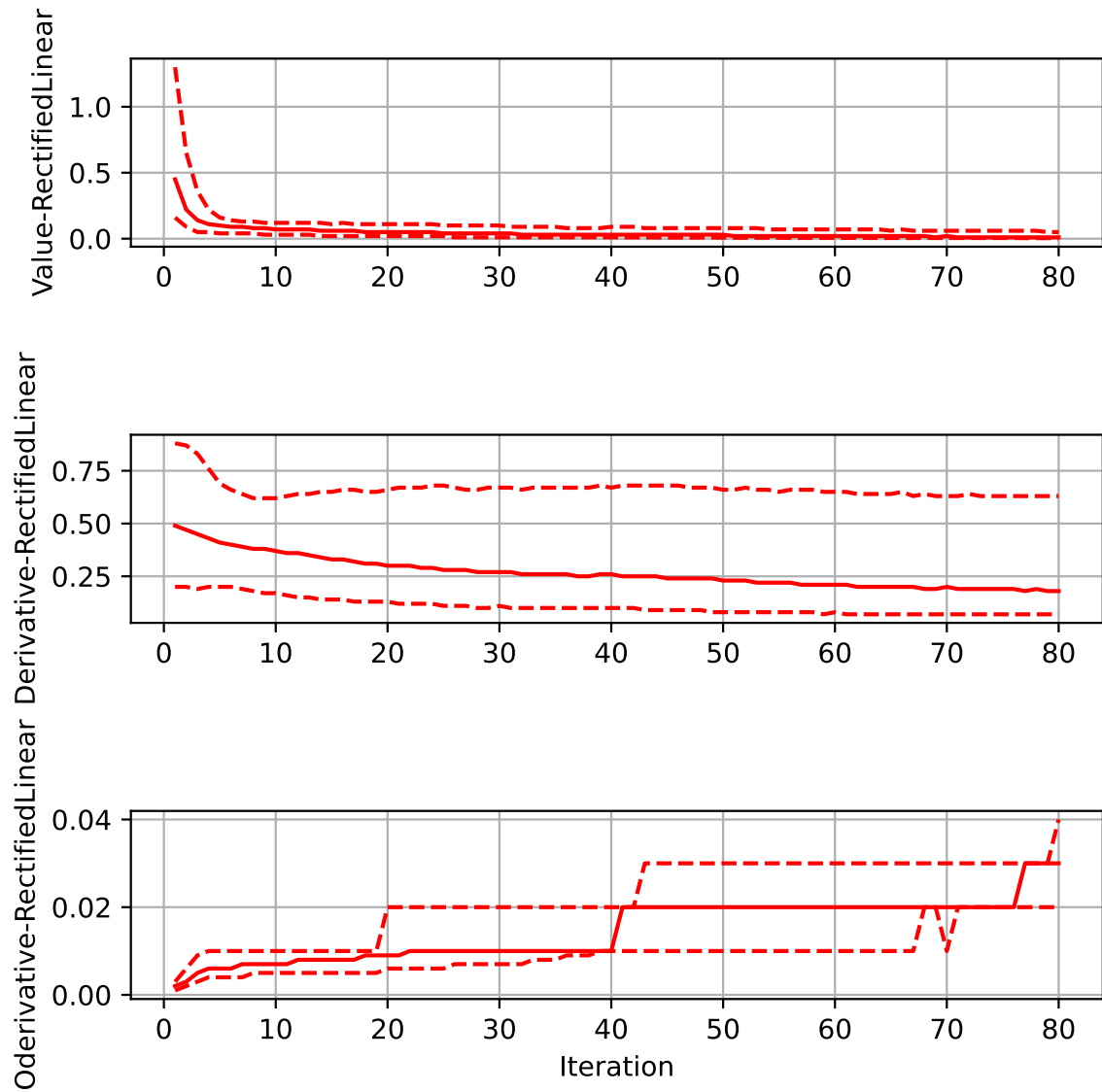


```
[1]:/home/sourya/kaldi/egs/tamil_telugu_proj/s5_r3/telugu_exp/chain_cleaned_1d/tdnn1d_sp
```

5th percentile      50th percentile      95th percentile

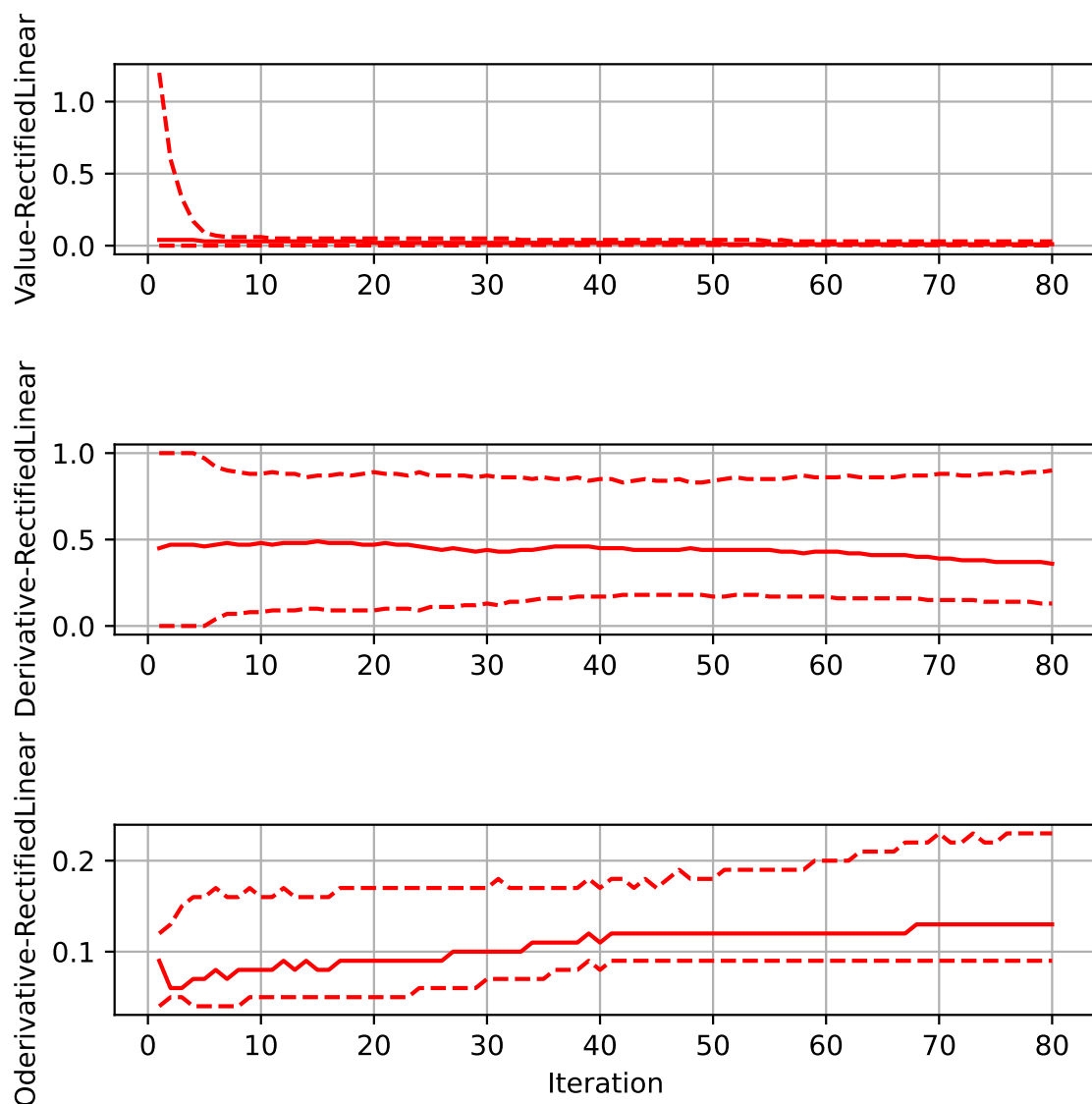
[1]/      - - -      -      - - -

FIG. 4: Per-dimension average-(value, derivative) and rms-oderivative percentiles for prefinal-xent.relu



[1]:/home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp  
 5th percentile      50th percentile      95th percentile  
 [1]/      ---      —      ---

FIG. 5: Per-dimension average-(value, derivative) and rms-oderivative percentiles for tdnn1.relu



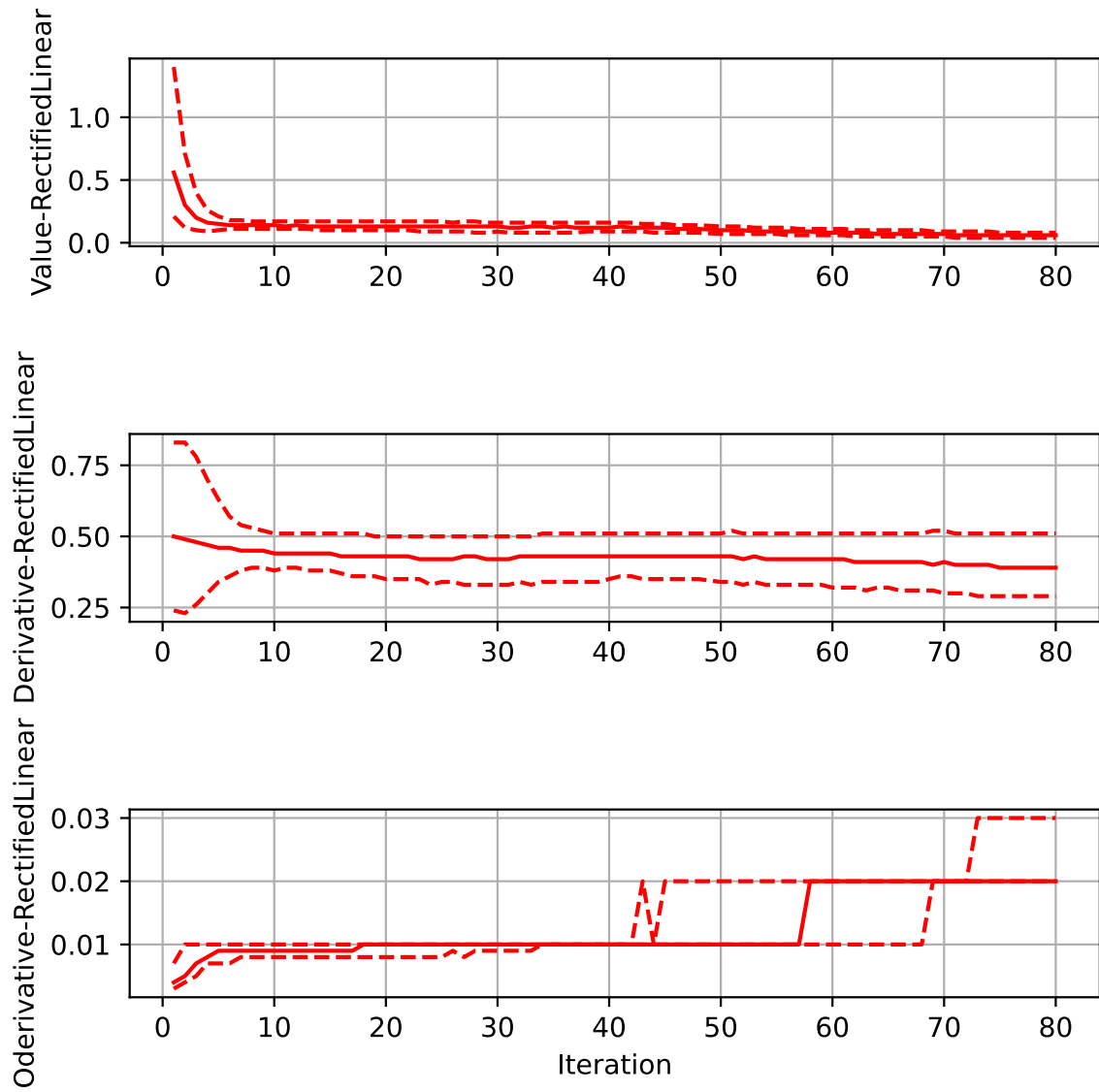
```
[1]:/home/sourya/kaldi/egs/tamil_telugu_proj/s5_r3/telugu_exp/chain_cleaned_1d/tdnn1d_sp
```

```

      5th percentile    50th percentile    95th percentile
[1]/  ---             - - - - -          - . - . -

```

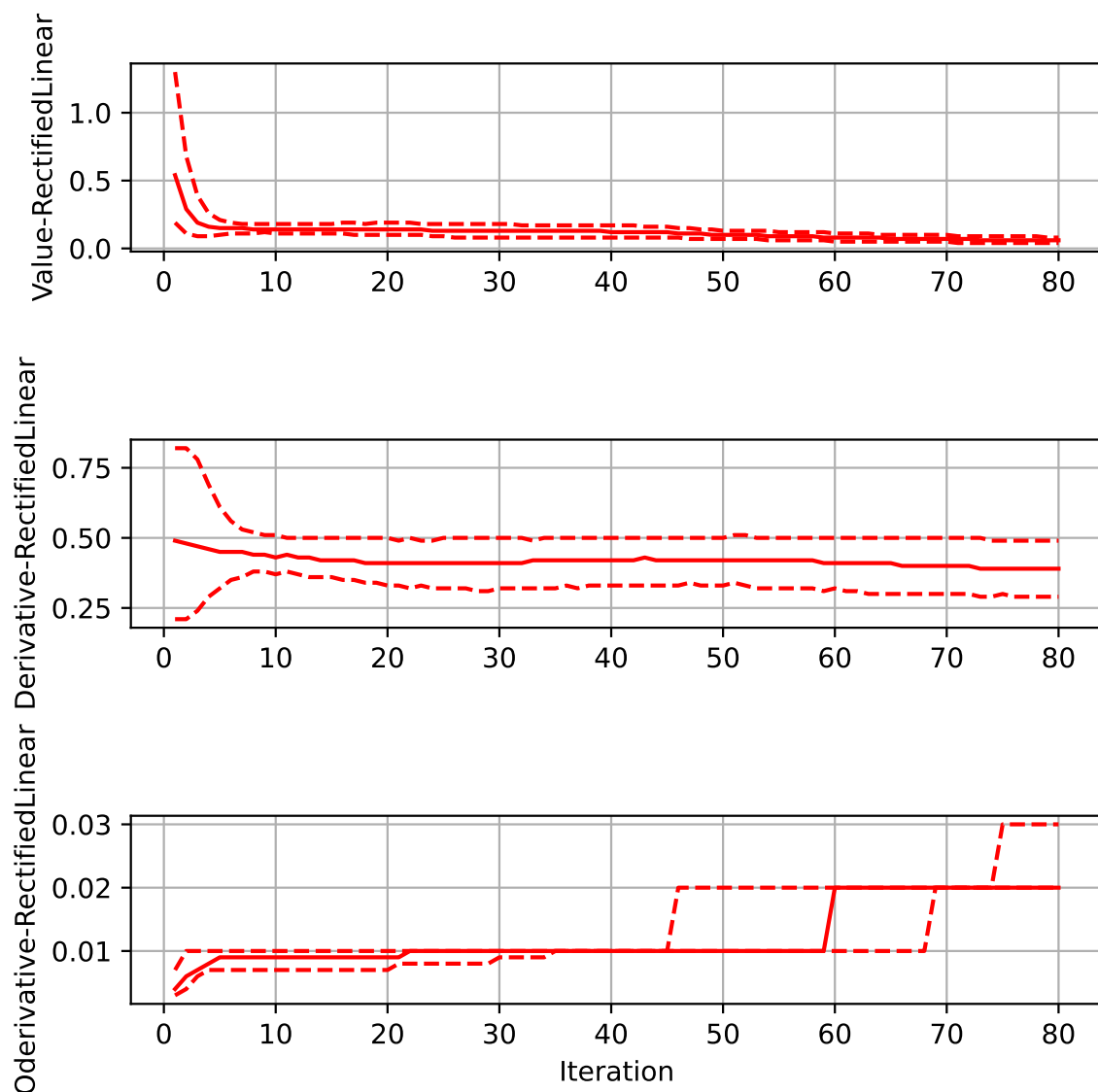
FIG. 6: Per-dimension average-(value, derivative) and rms-oderivative percentiles for tdnnf10.relu



[1]:/home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp

	5th percentile	50th percentile	95th percentile
[1]/	---	---	---

FIG. 7: Per-dimension average-(value, derivative) and rms-oderivative percentiles for tdnnf11.relu



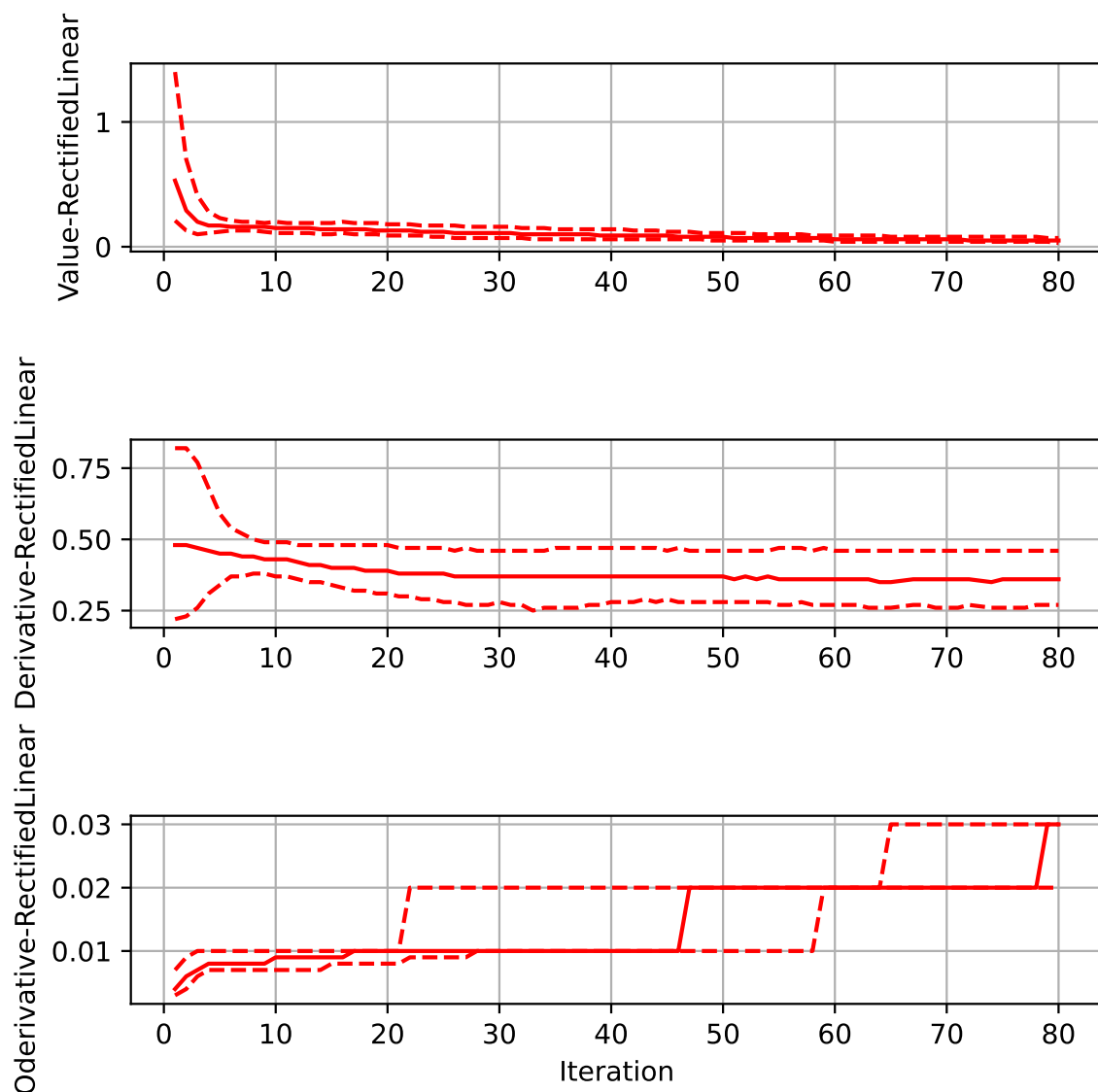
```
[1]:/home/sourya/kaldi/egs/tamil_telugu_proj/s5_r3/telugu_exp/chain_cleaned_1d/tdnn1d_sp
```

```

      5th percentile    50th percentile    95th percentile
[1]/  ---             -                  ---

```

FIG. 8: Per-dimension average-(value, derivative) and rms-oderivative percentiles for tdnnf12.relu



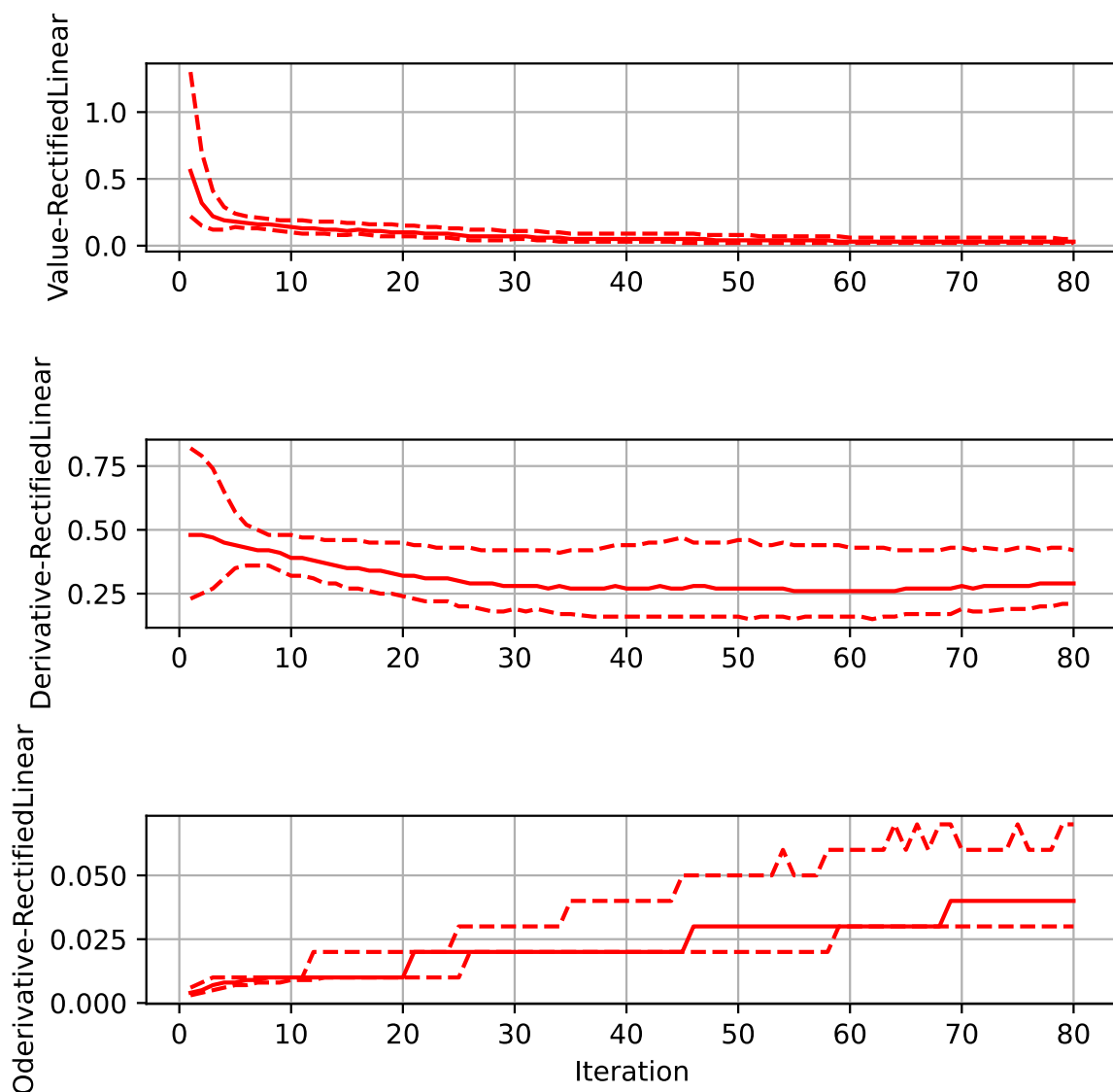
```
[1]:/home/sourya/kaldi/egs/tamil_telugu_proj/s5_r3/telugu_exp/chain_cleaned_1d/tdnn1d_sp
```

5th percentile      50th percentile      95th percentile

[1]/      - - -      - - -      - - -



FIG. 9: Per-dimension average-(value, derivative) and rms-oderivative percentiles for tdnnf13.relu

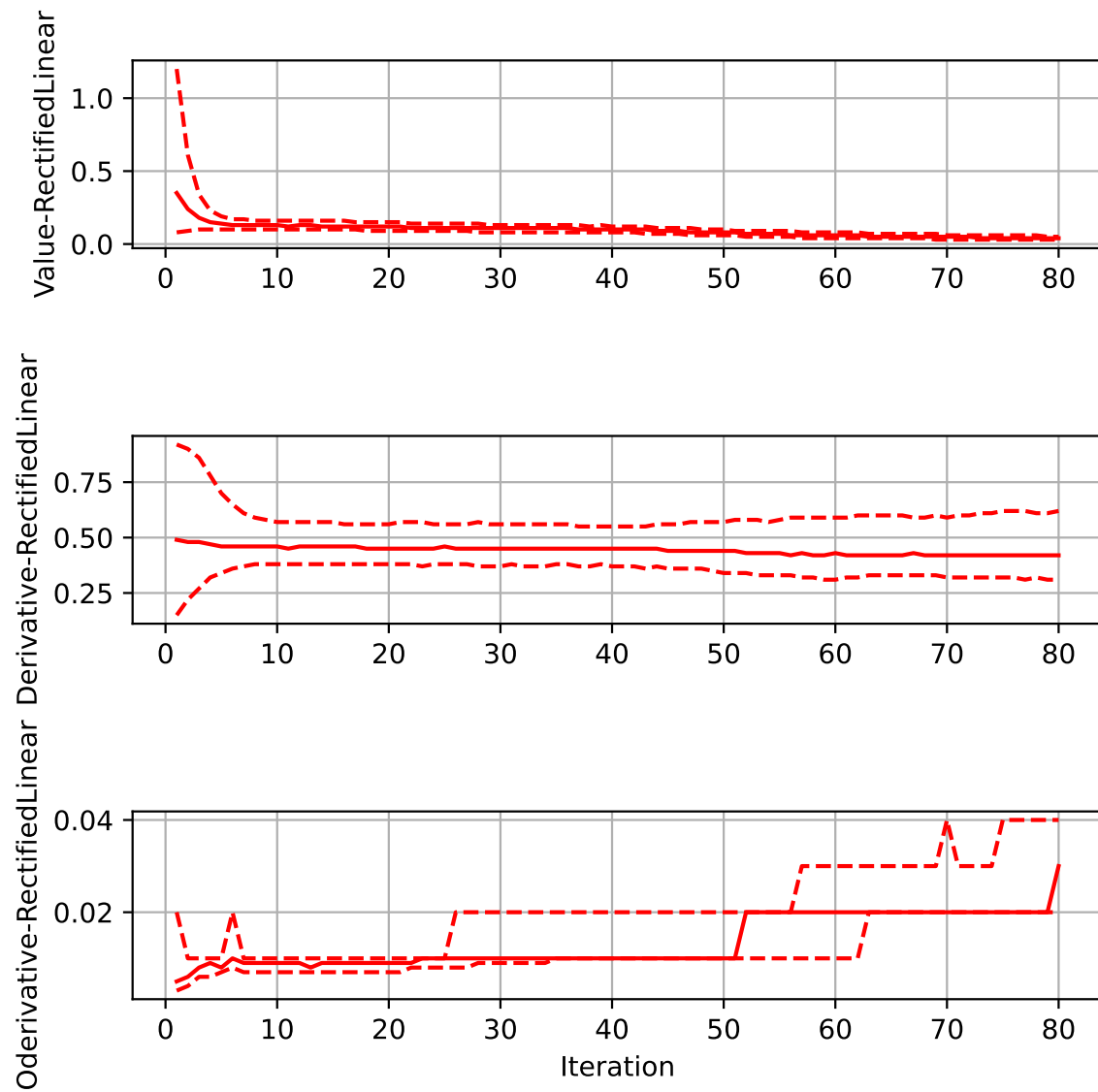


```
[1]:/home/sourya/kaldi/egs/tamil_telugu_proj/s5_r3/telugu_exp/chain_cleaned_1d/tdnn1d_sp
```

5th percentile      50th percentile      95th percentile

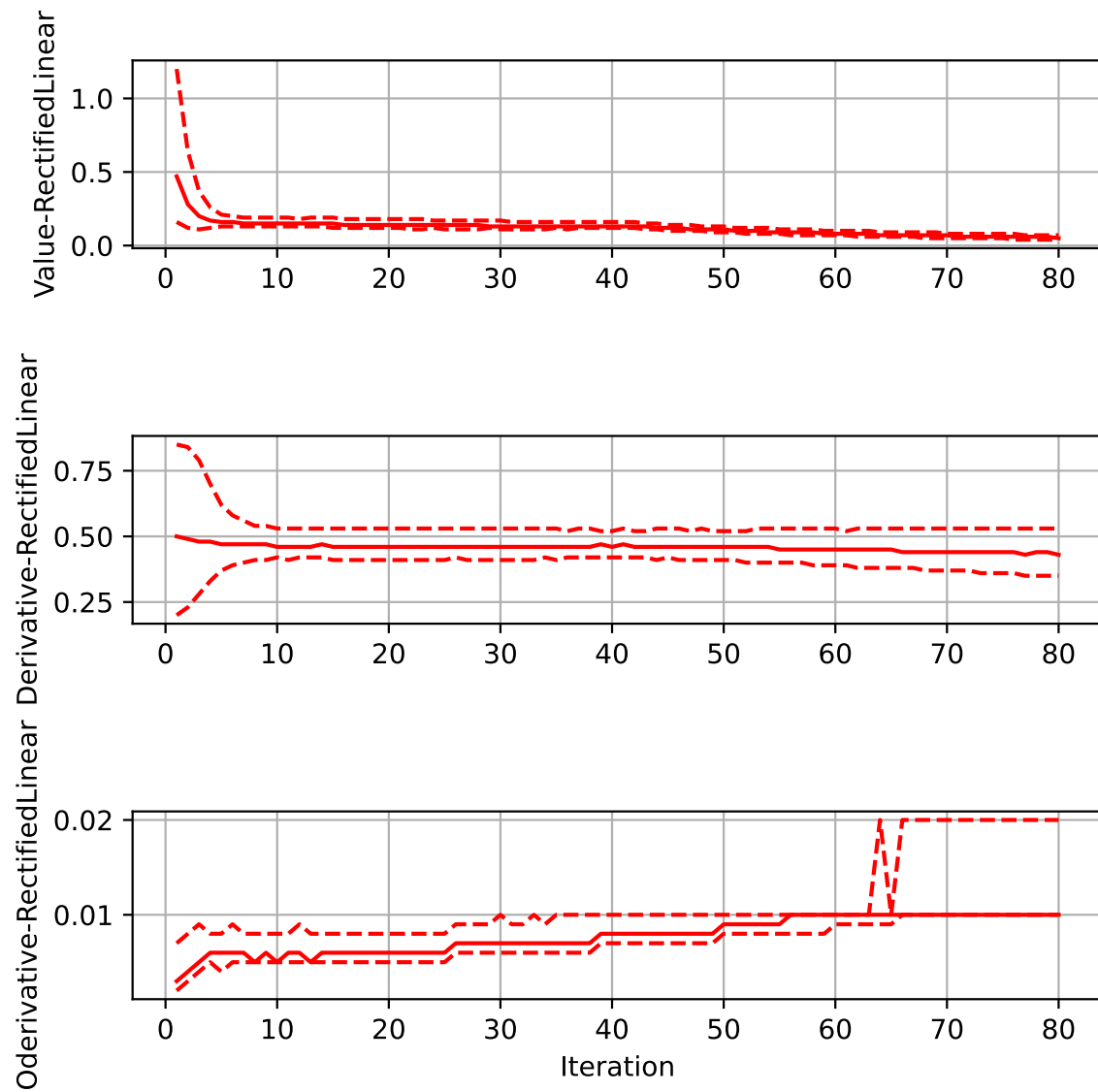
[1]/      - - -      -      - - -

FIG. 10: Per-dimension average-(value, derivative) and rms-oderivative percentiles for tdnnf2.relu



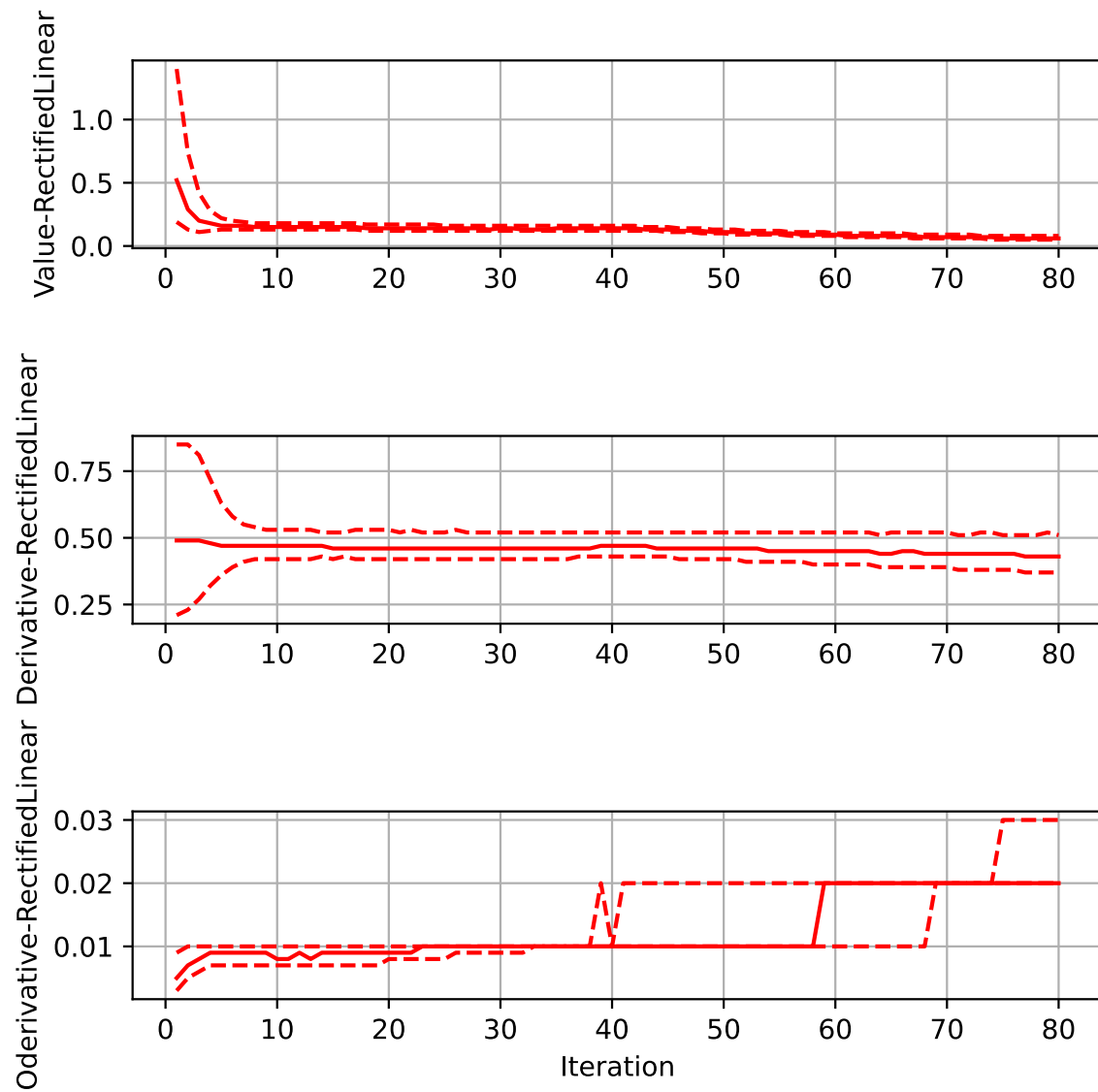
[1]:/home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp  
 [1]/      5th percentile      50th percentile      95th percentile  
           [1]/      - - -                      - - -                      - - -

FIG. 11: Per-dimension average-(value, derivative) and rms-oderivative percentiles for tdnnf3.relu



[1]:/home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp  
 5th percentile      50th percentile      95th percentile  
 [1]/      - - -      - - -      - - -

FIG. 12: Per-dimension average-(value, derivative) and rms-oderivative percentiles for tdnnf4.relu



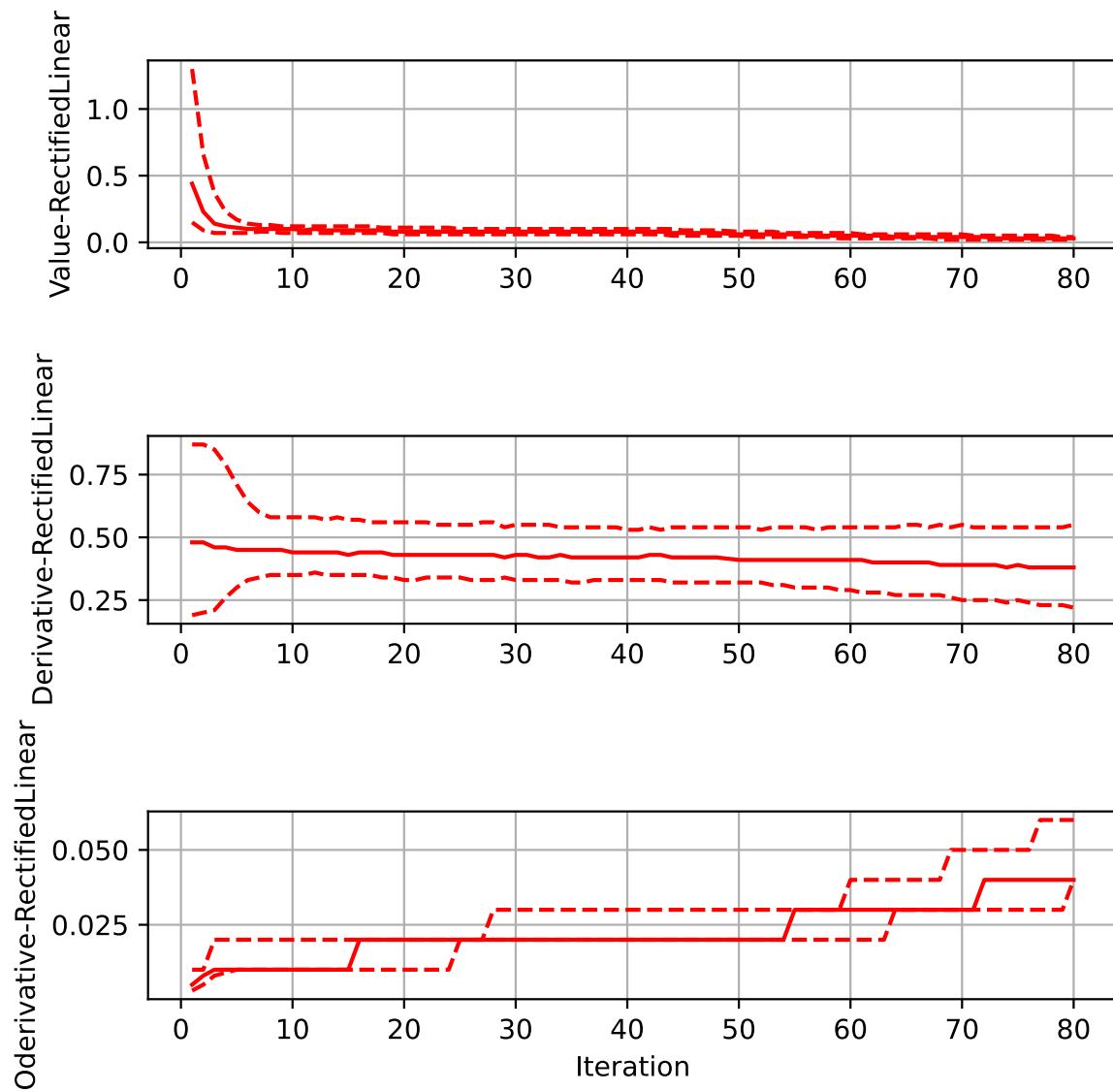
```
[1]:/home/sourya/kaldi/egs/tamil_telugu_proj/s5_r3/telugu_exp/chain_cleaned_1d/tdnn1d_sp
```

```

      5th percentile    50th percentile    95th percentile
[1]/  ---             - - - - -          - - - - -

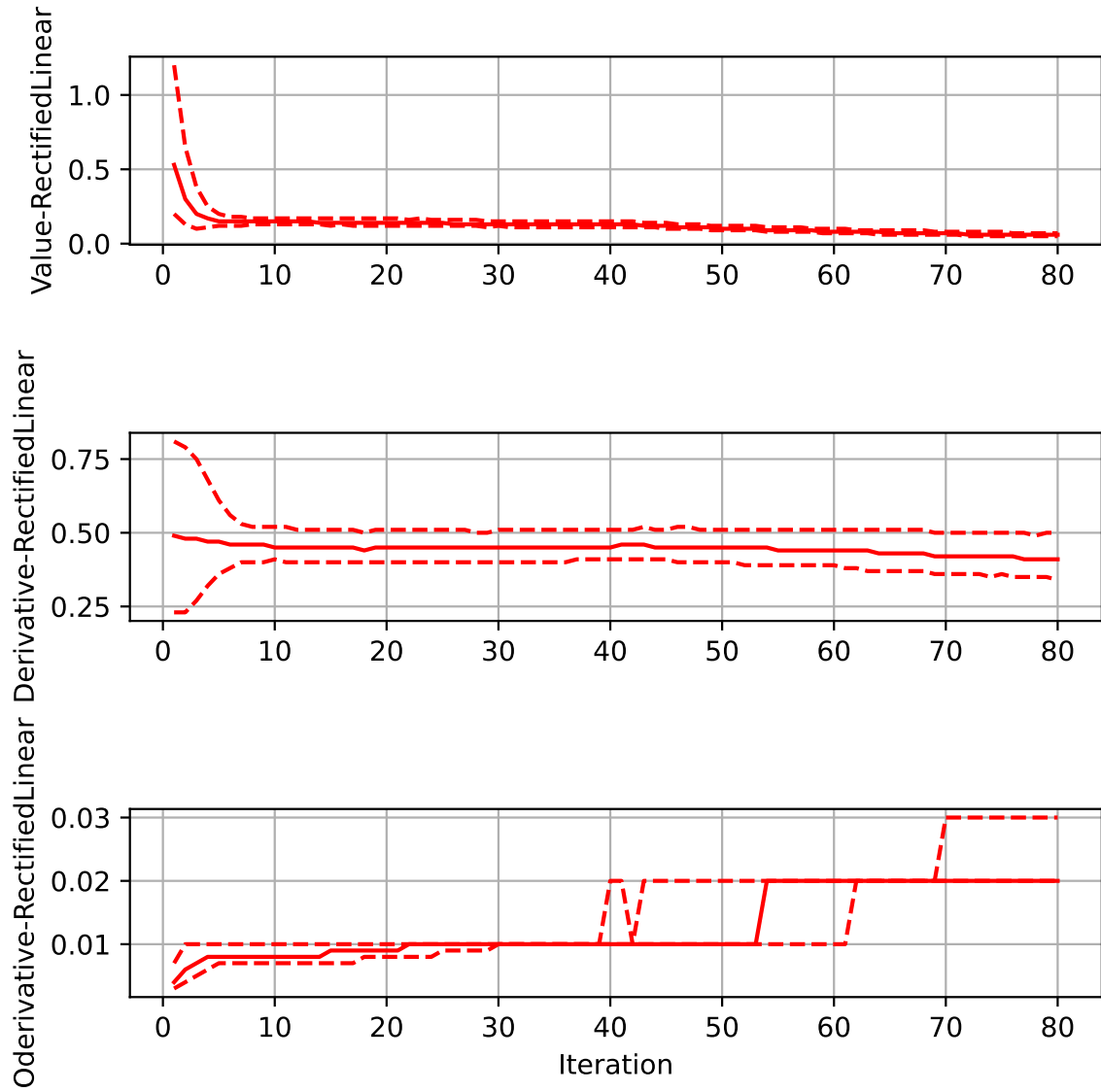
```

FIG. 13: Per-dimension average-(value, derivative) and rms-oderivative percentiles for tdnnf5.relu



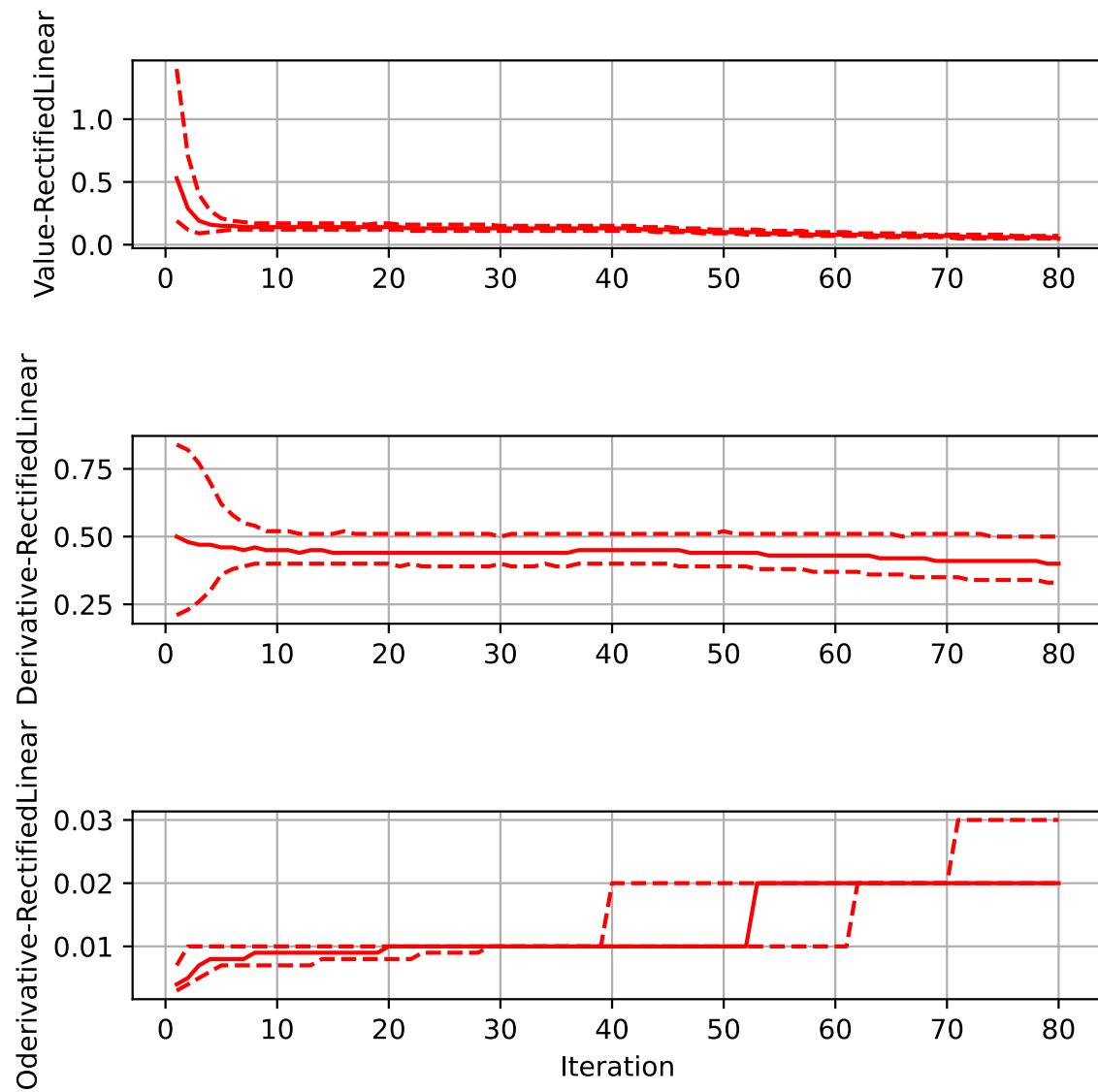
[1]:/home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp  
 [1]/      5th percentile      50th percentile      95th percentile  
           [1]/      - - -                      - - -                      - - -

FIG. 14: Per-dimension average-(value, derivative) and rms-oderivative percentiles for tdnnf6.relu



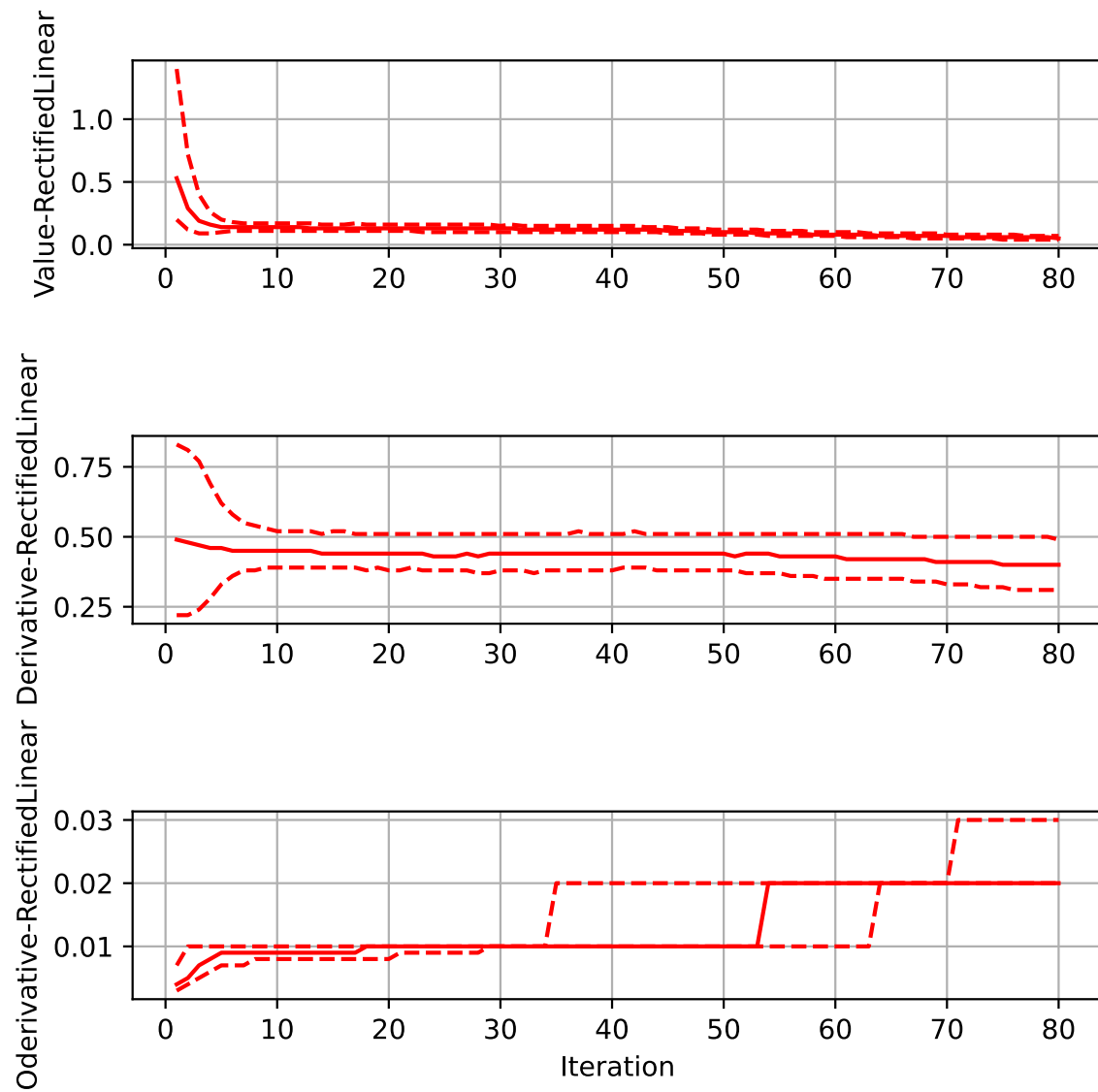
[1]:/home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp  
 5th percentile      50th percentile      95th percentile  
 [1]/      - - -      - - -      - - -

FIG. 15: Per-dimension average-(value, derivative) and rms-oderivative percentiles for tdnnf7.relu



[1]:/home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp  
 [1]/      5th percentile      50th percentile      95th percentile  
           ---                    ---                    ---

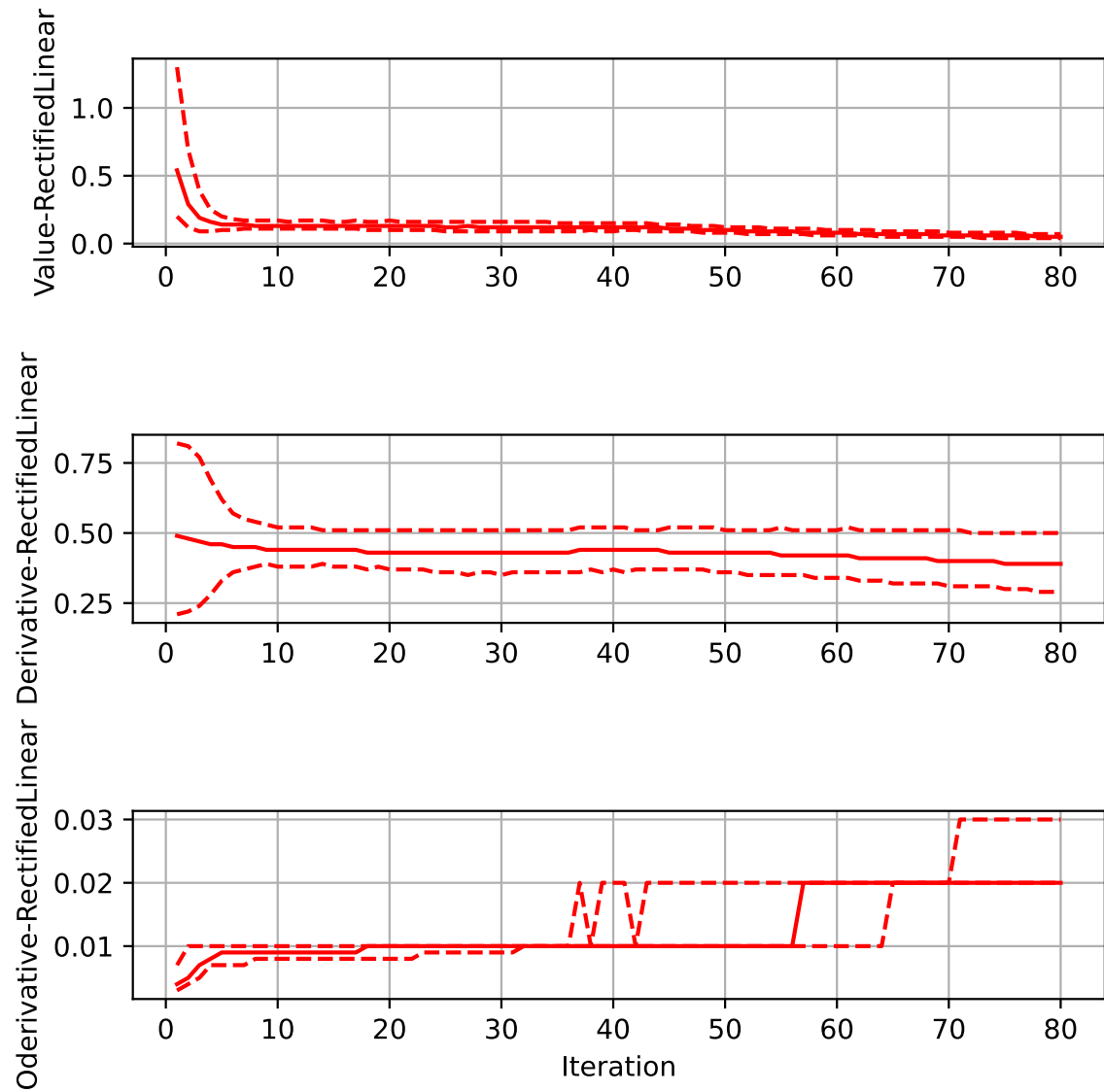
FIG. 16: Per-dimension average-(value, derivative) and rms-oderivative percentiles for tdnnf8.relu



[1]:/home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp  
 5th percentile      50th percentile      95th percentile  
 [1]/      - - -      - - -      - - -



FIG. 17: Per-dimension average-(value, derivative) and rms-oderivative percentiles for tdnnf9.relu

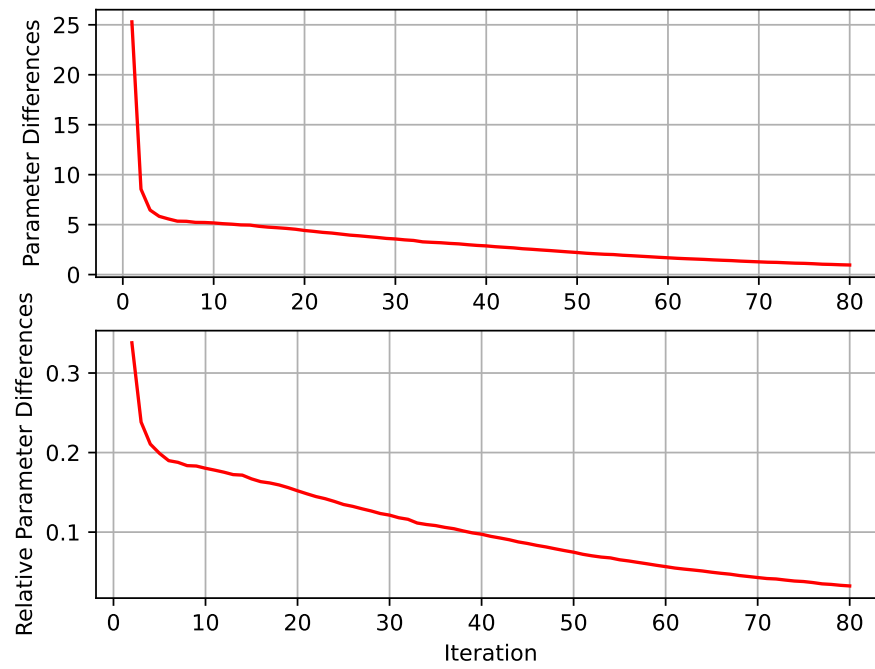


```
[1]:/home/sourya/kaldi/egs/tamil_telugu_proj/s5_r3/telugu_exp/chain_cleaned_1d/tdnn1d_sp
```

5th percentile      50th percentile      95th percentile

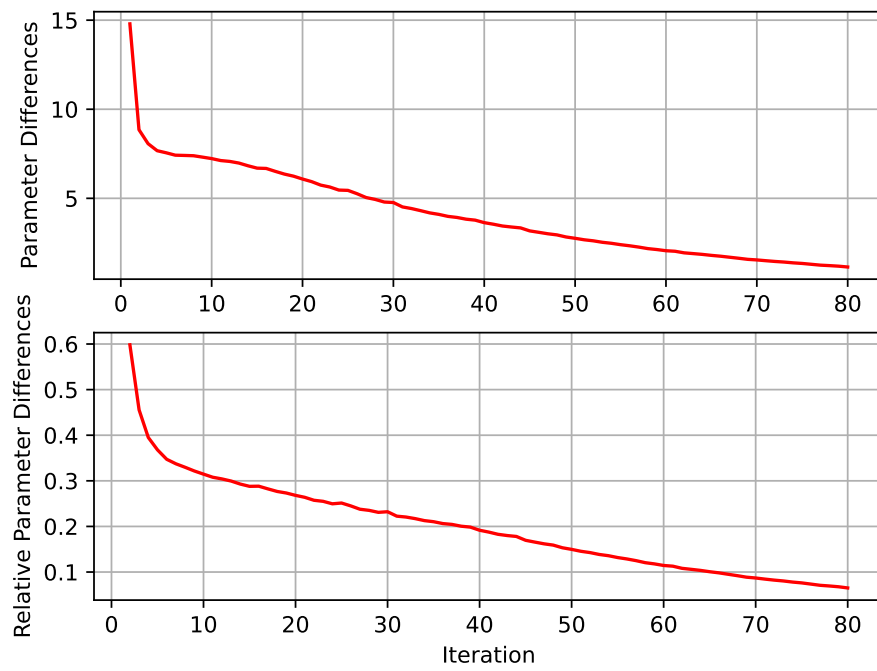
[1]/      ---      —      ---

FIG. 18: Parameter differences at output-xent.affine

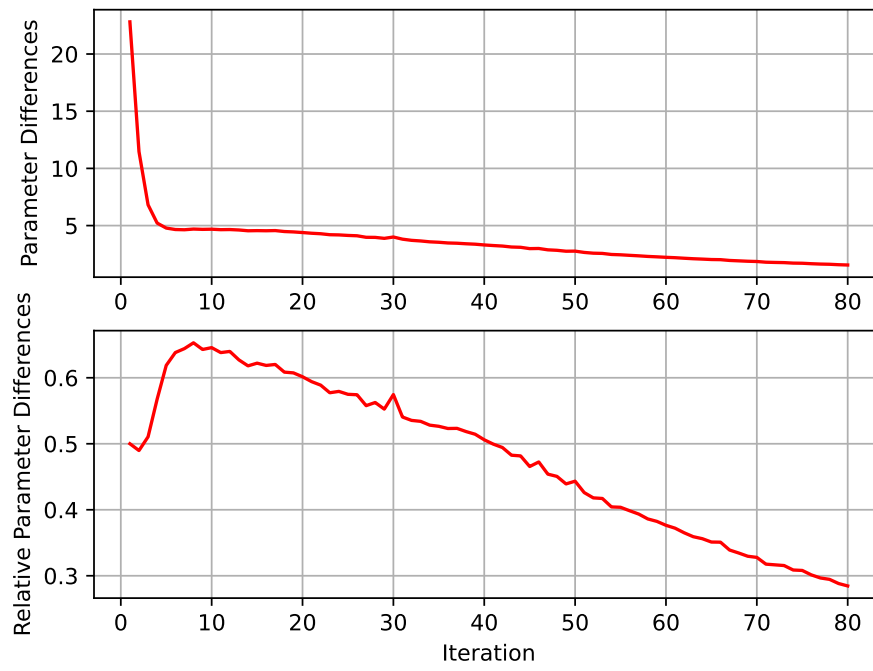


— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

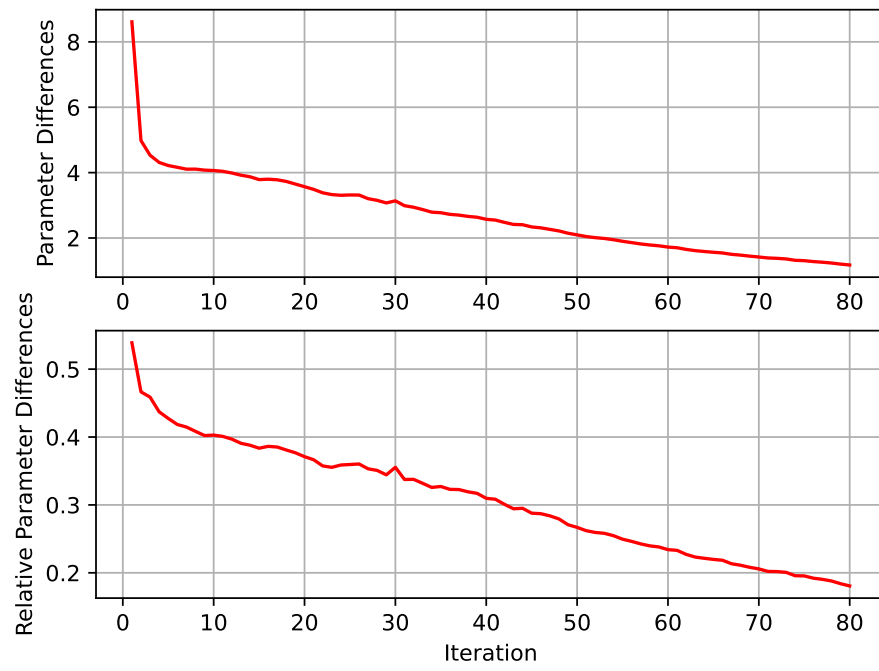
FIG. 19: Parameter differences at output.affine



— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

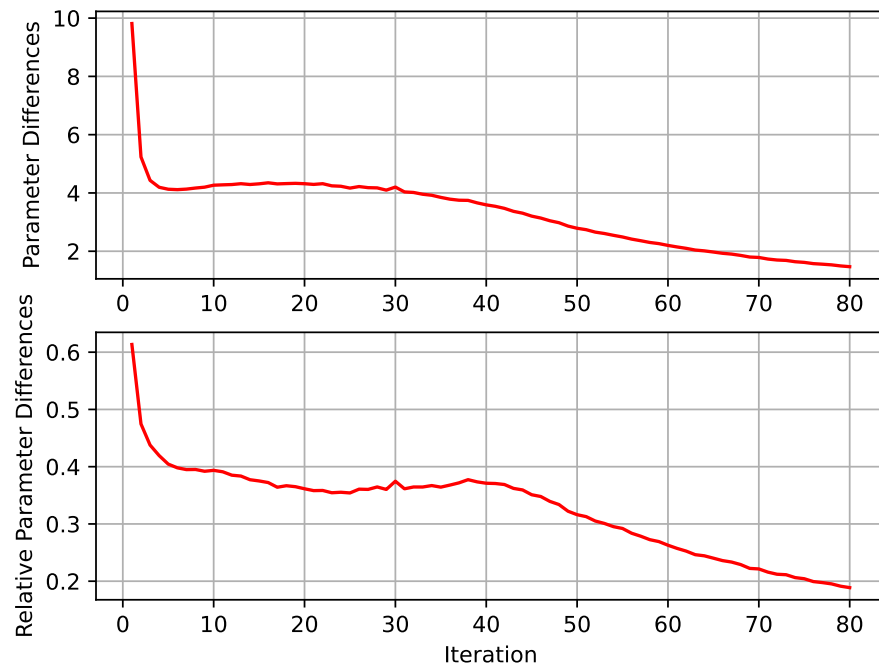
FIG. 20: Parameter differences at `prefinal-chain.affine`

— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

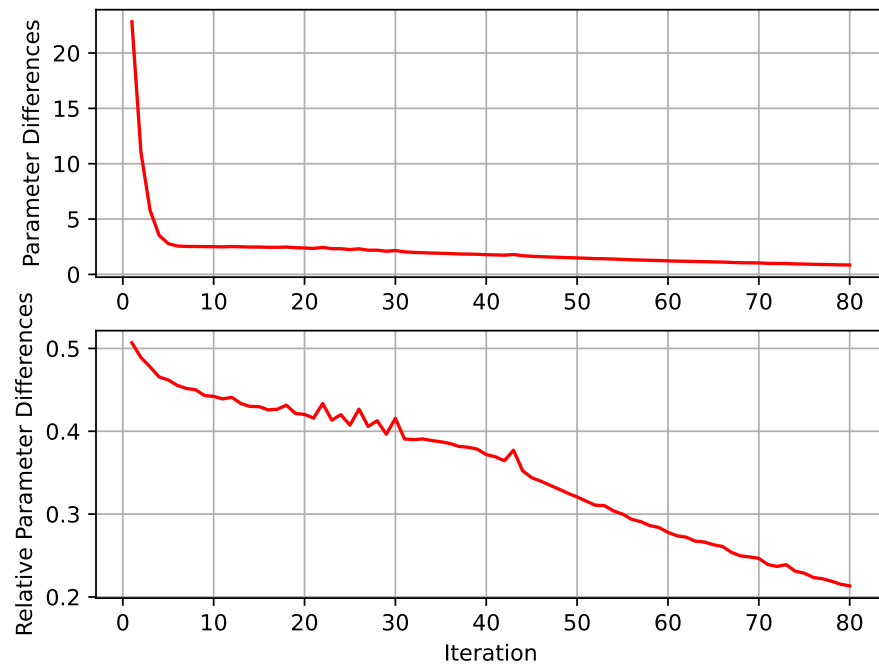
FIG. 21: Parameter differences at `prefinal-chain.linear`

— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

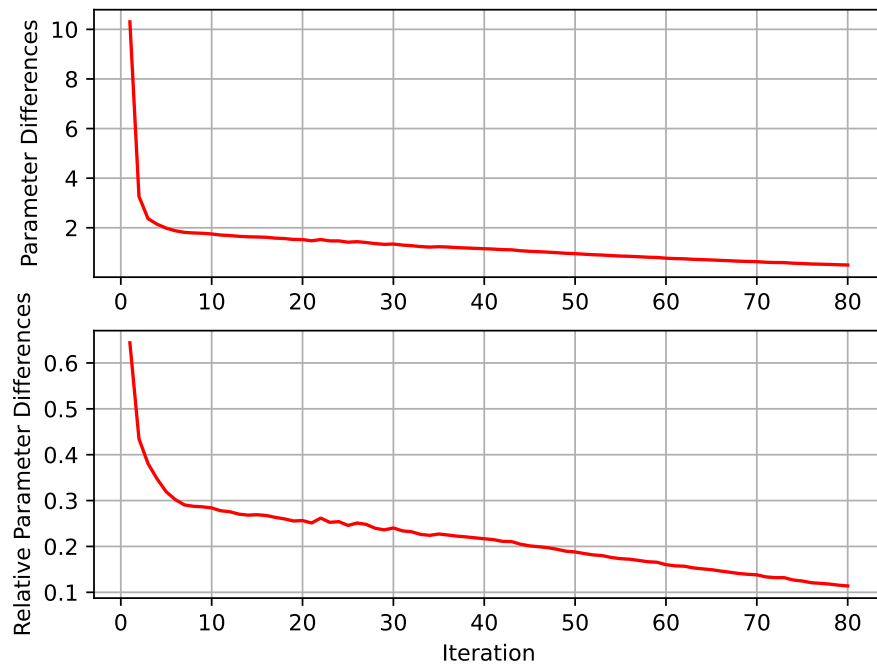
FIG. 22: Parameter differences at prefinal-1



— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 23: Parameter differences at `prefinal-xent.affine`

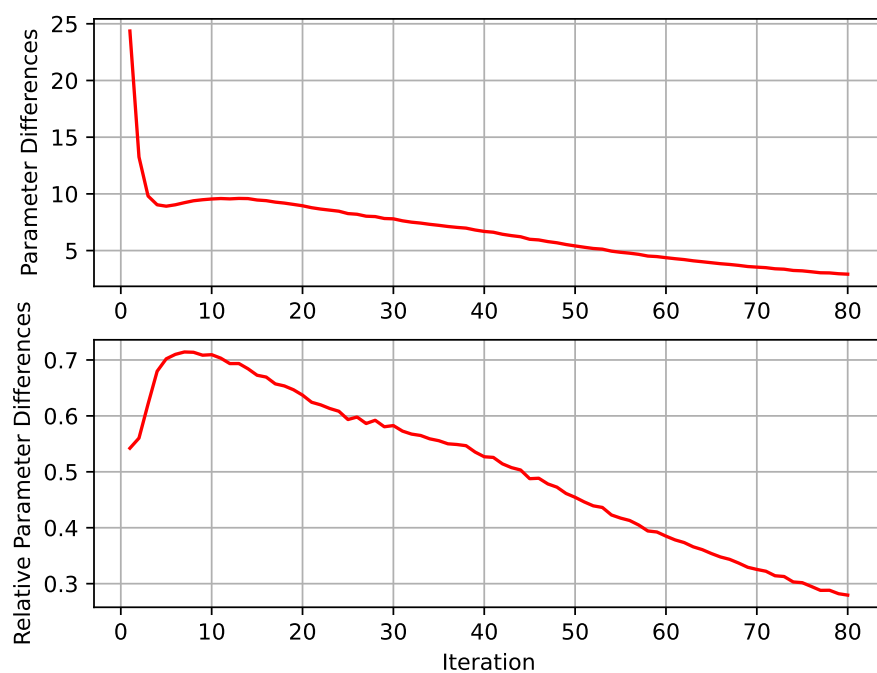
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 24: Parameter differences at `prefinal-xent.linear`

— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

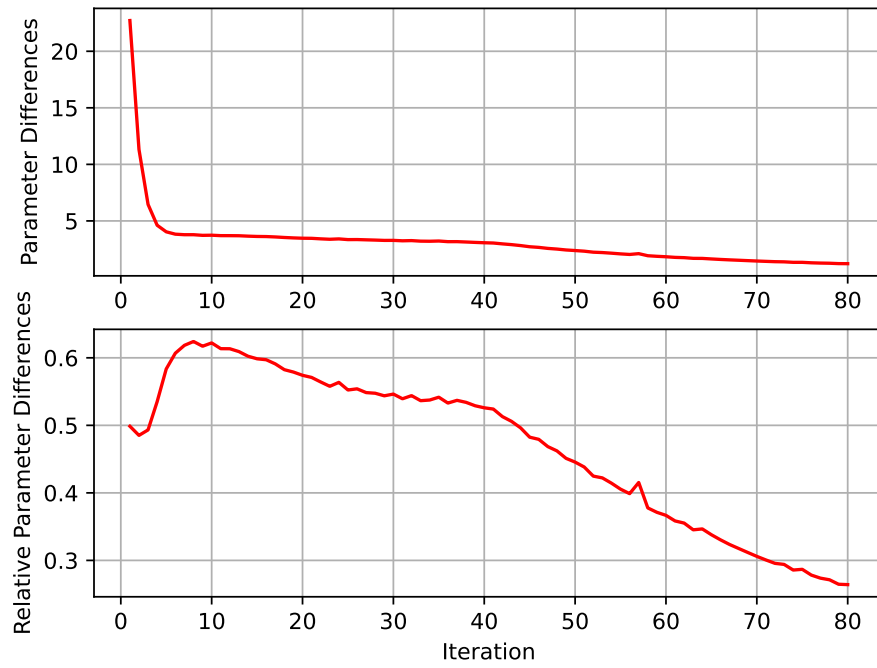


FIG. 25: Parameter differences at tdnn1.affine



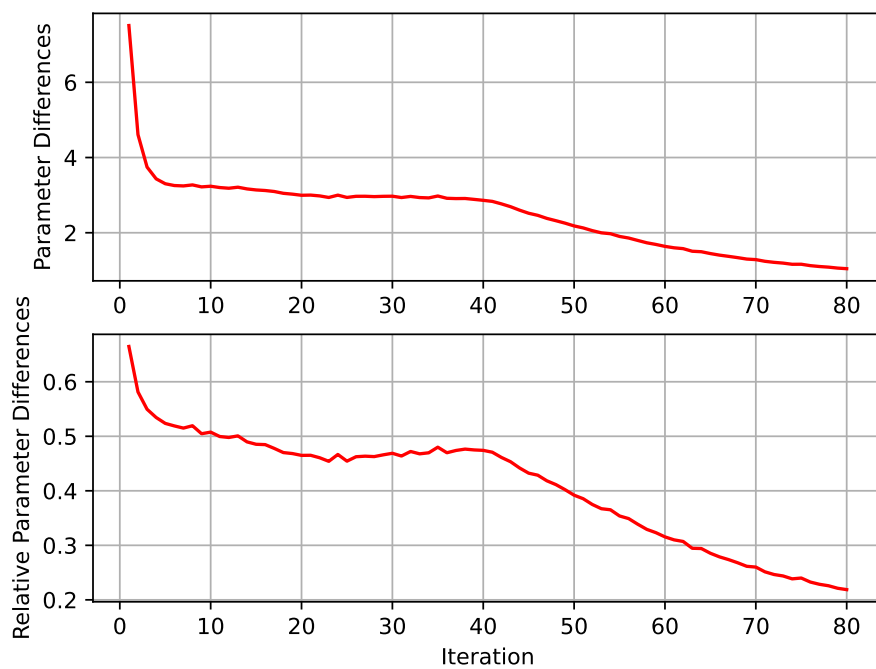
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 26: Parameter differences at tdnnf10.affine



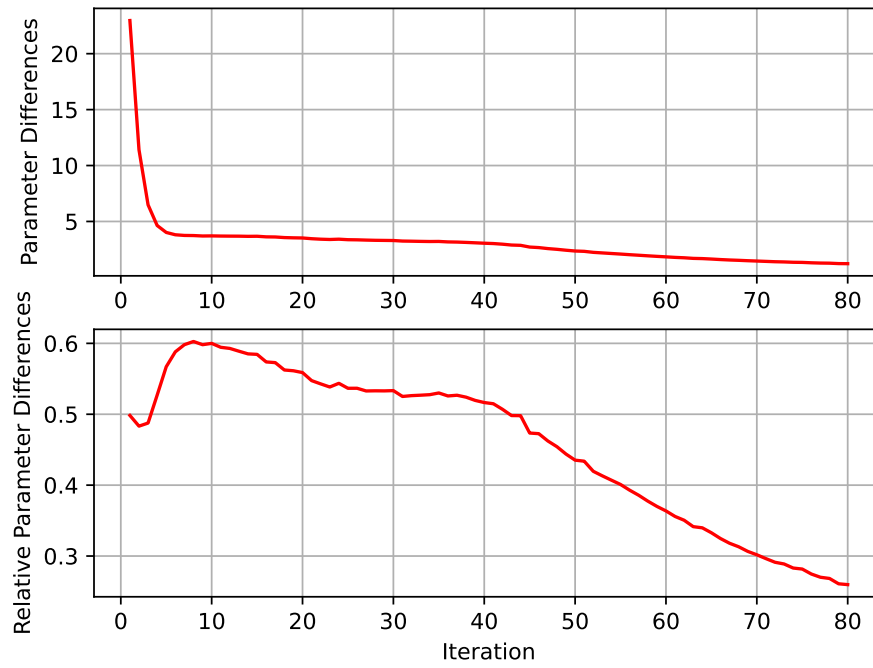
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 27: Parameter differences at tdnnf10.linear



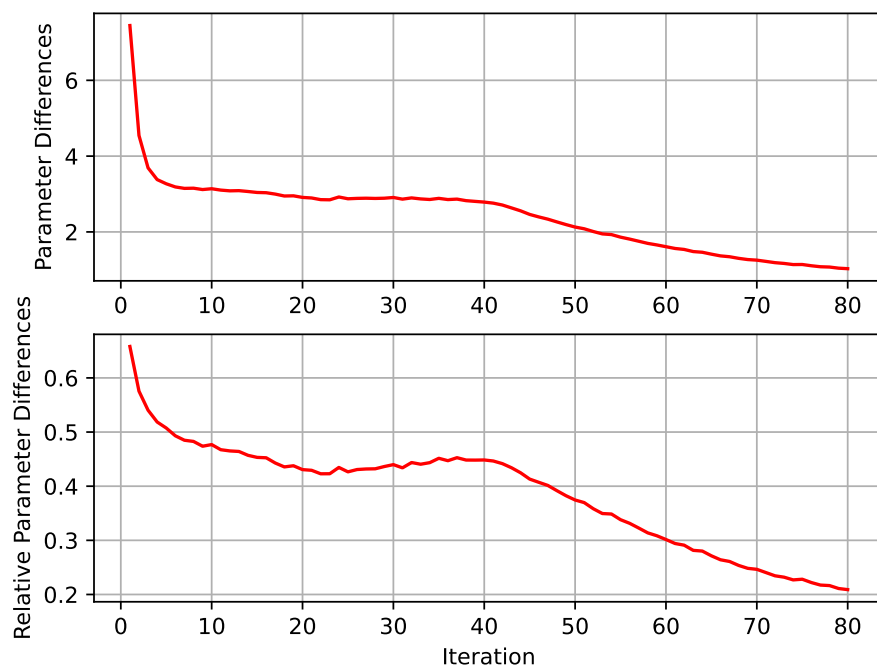
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 28: Parameter differences at tdnnf11.affine



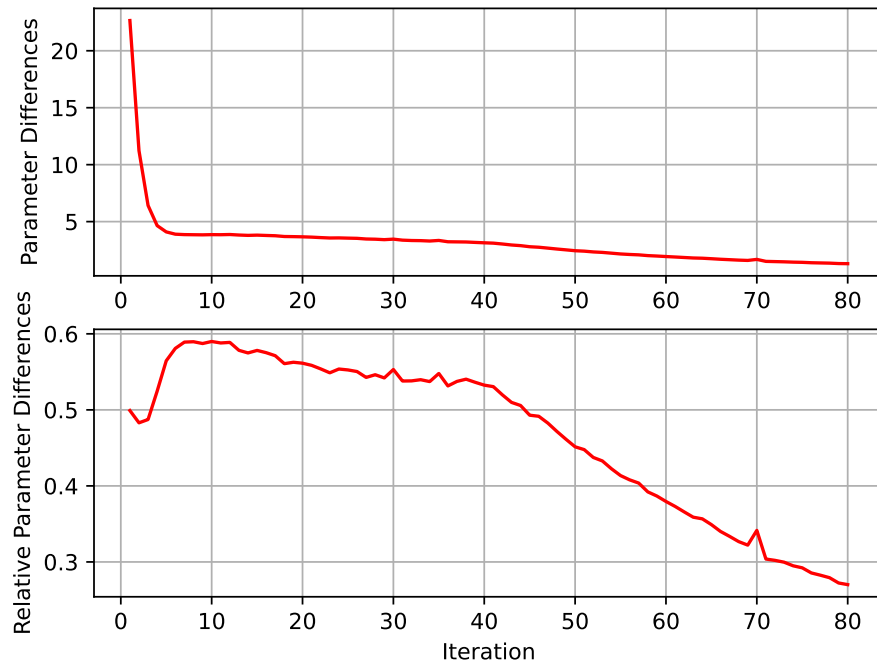
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 29: Parameter differences at tdnnf11.linear



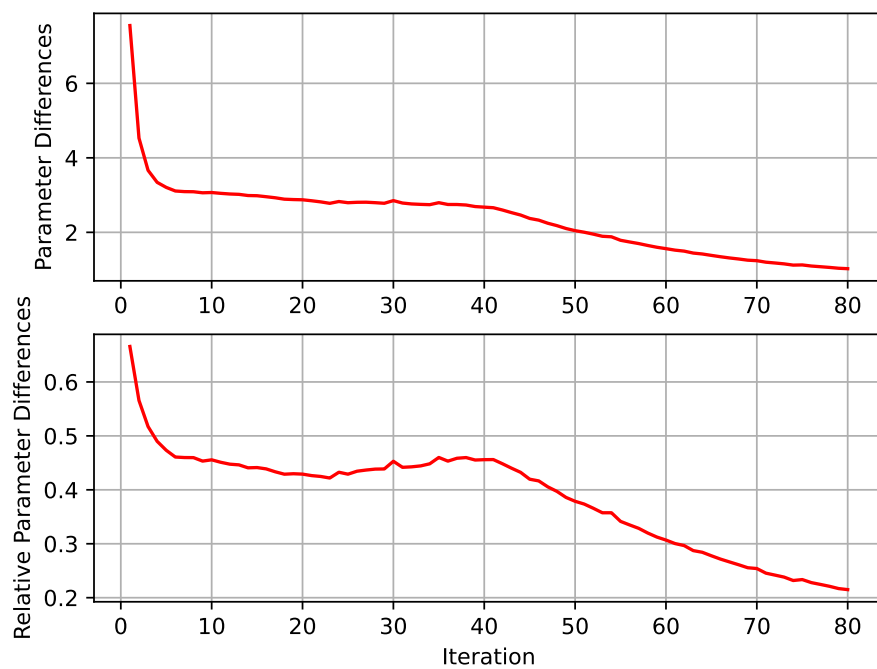
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 30: Parameter differences at tdnnf12.affine



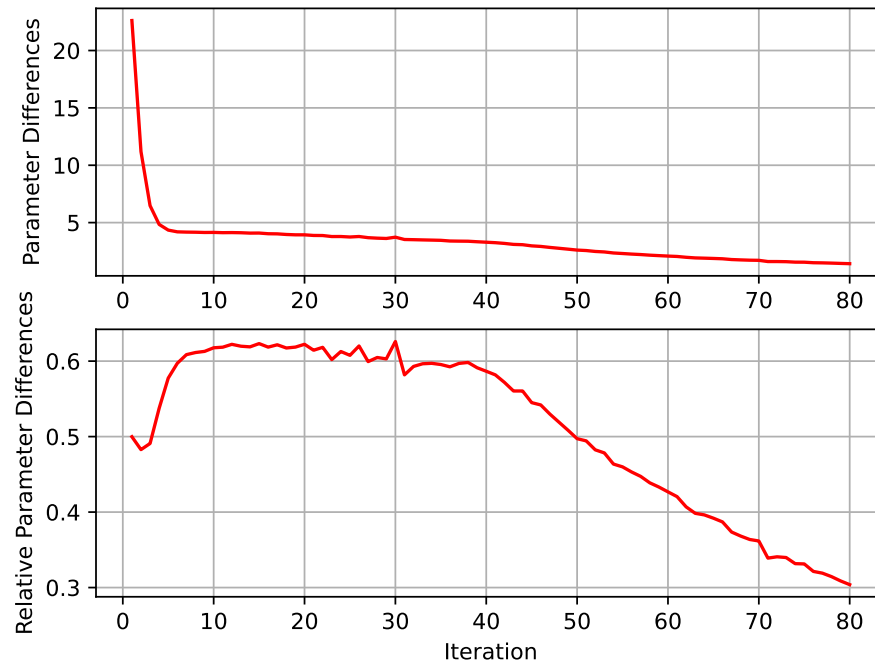
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 31: Parameter differences at tdnnf12.linear



— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

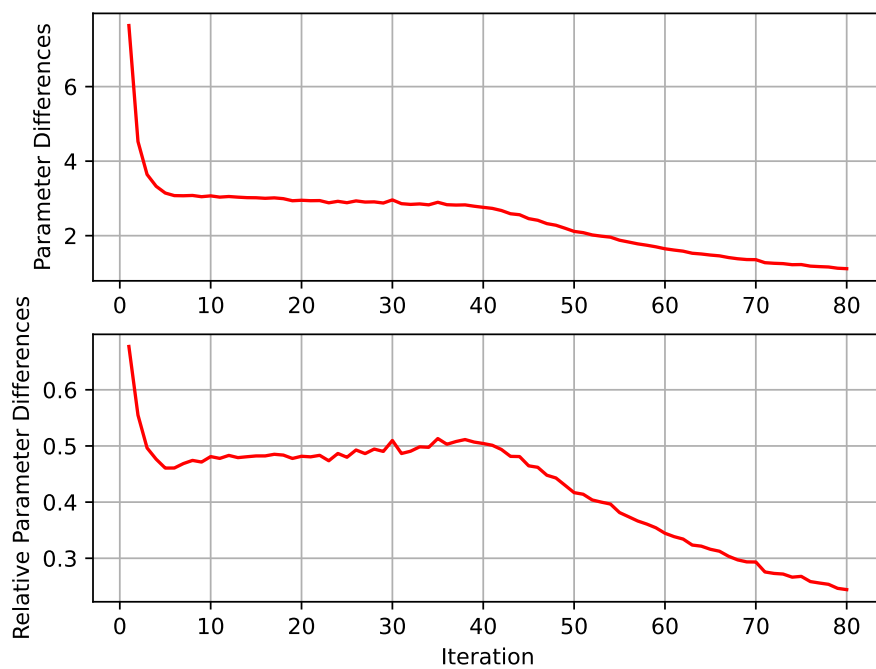
FIG. 32: Parameter differences at tdnnf13.affine



— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

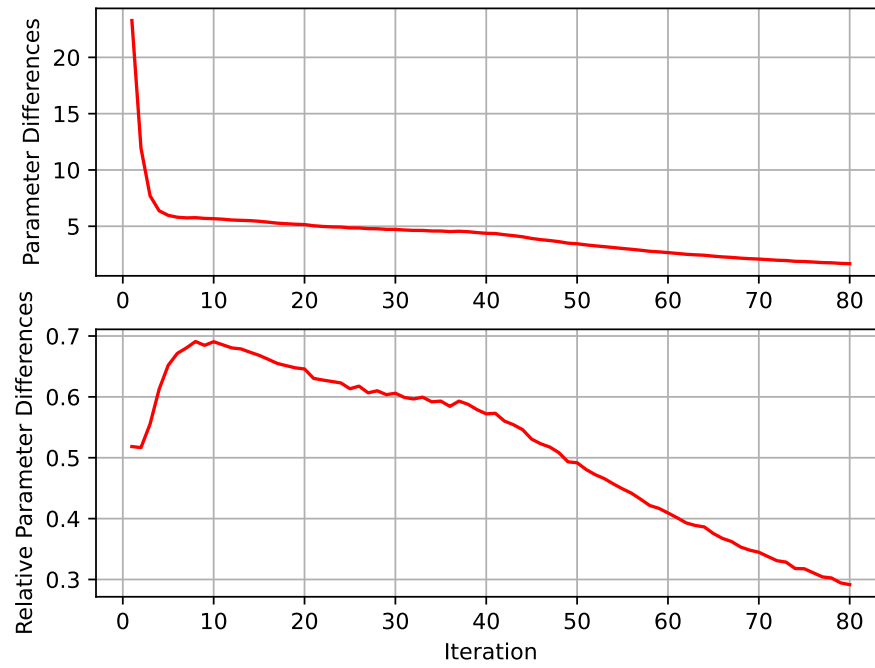


FIG. 33: Parameter differences at tdnnf13.linear



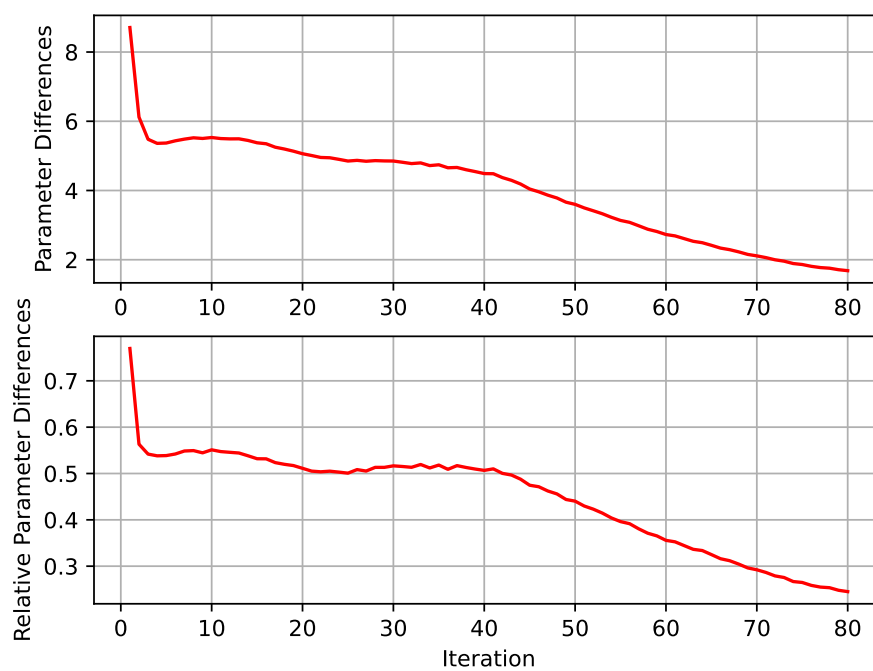
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 34: Parameter differences at tdnnf2.affine



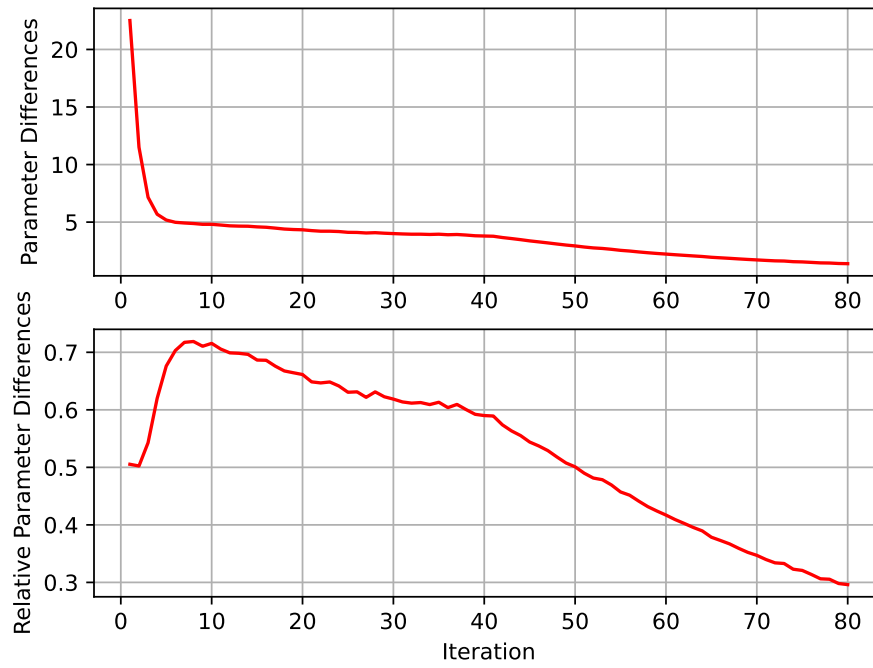
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 35: Parameter differences at tdnnf2.linear



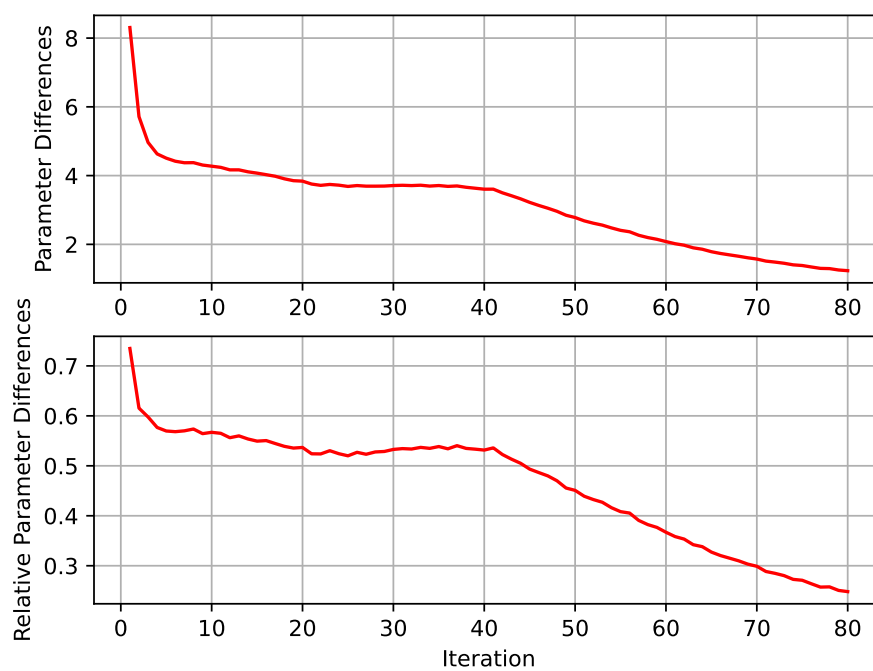
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 36: Parameter differences at tdnnf3.affine



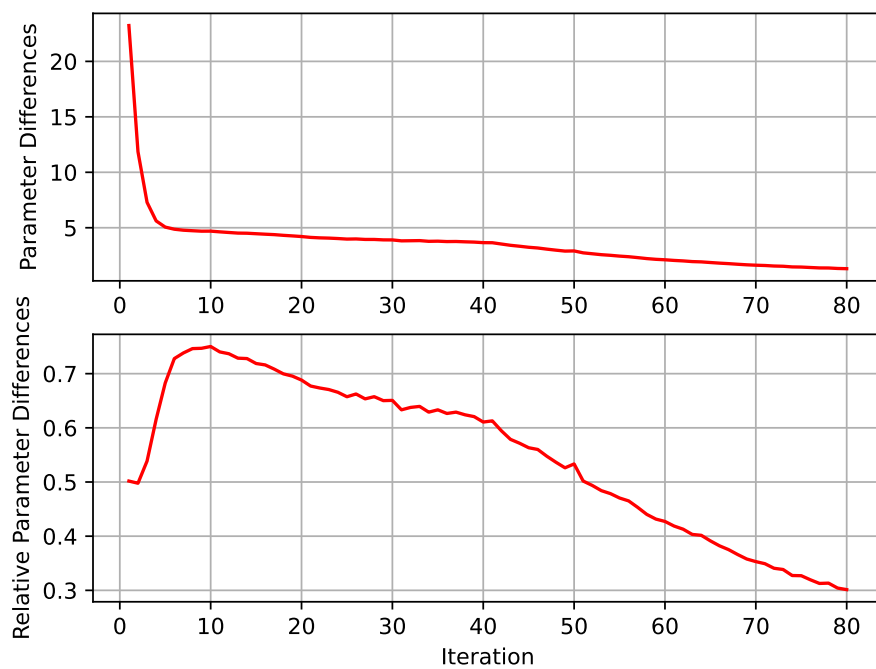
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 37: Parameter differences at tdnnf3.linear



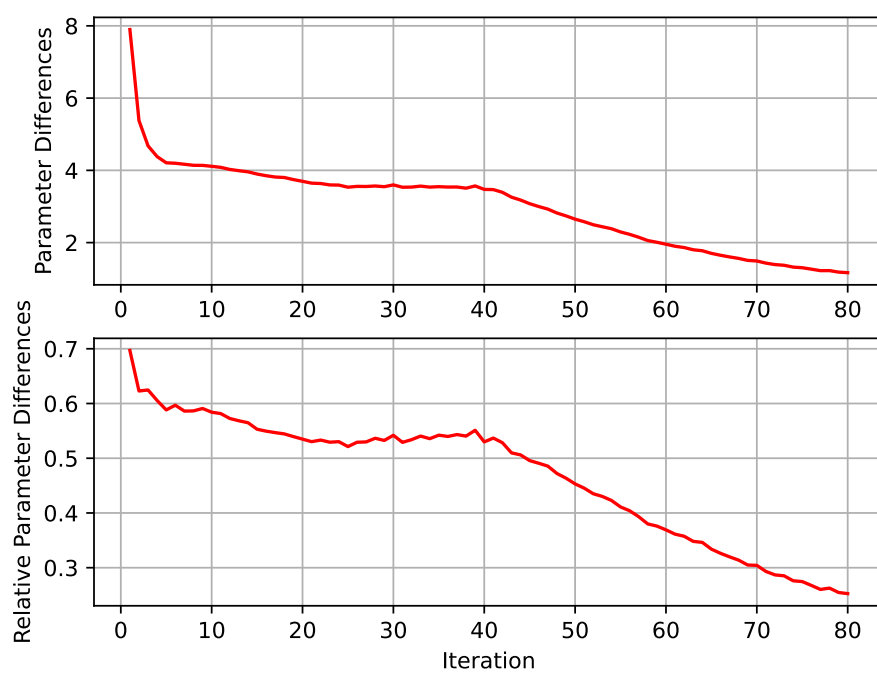
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 38: Parameter differences at tdnnf4.affine



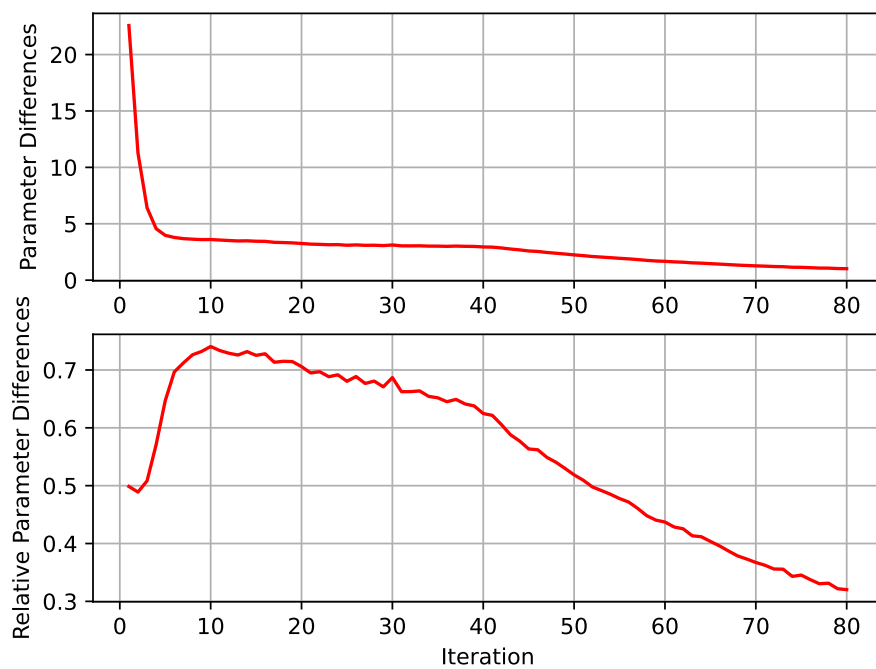
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 39: Parameter differences at tdnnf4.linear



— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

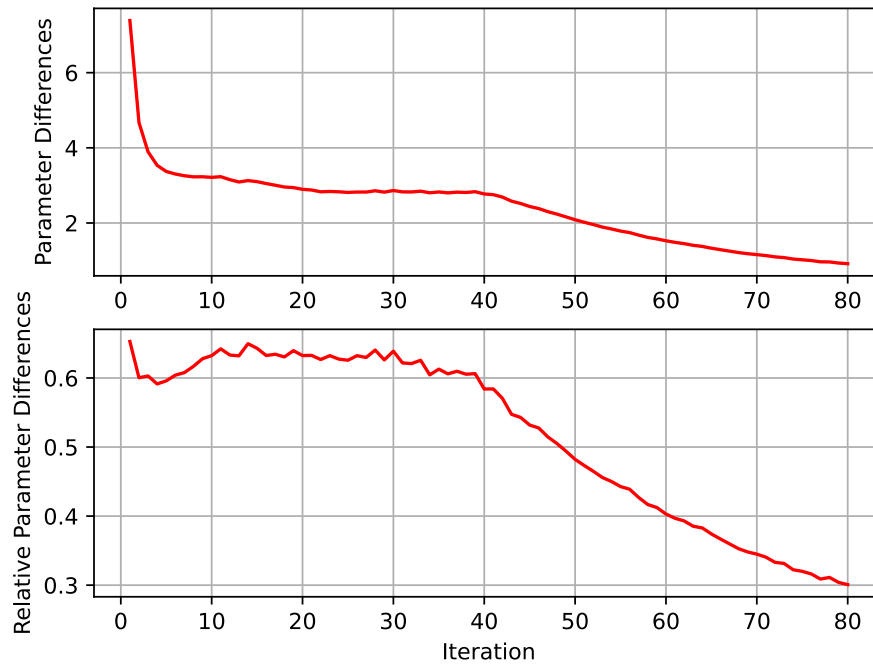
FIG. 40: Parameter differences at tdnnf5.affine



— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

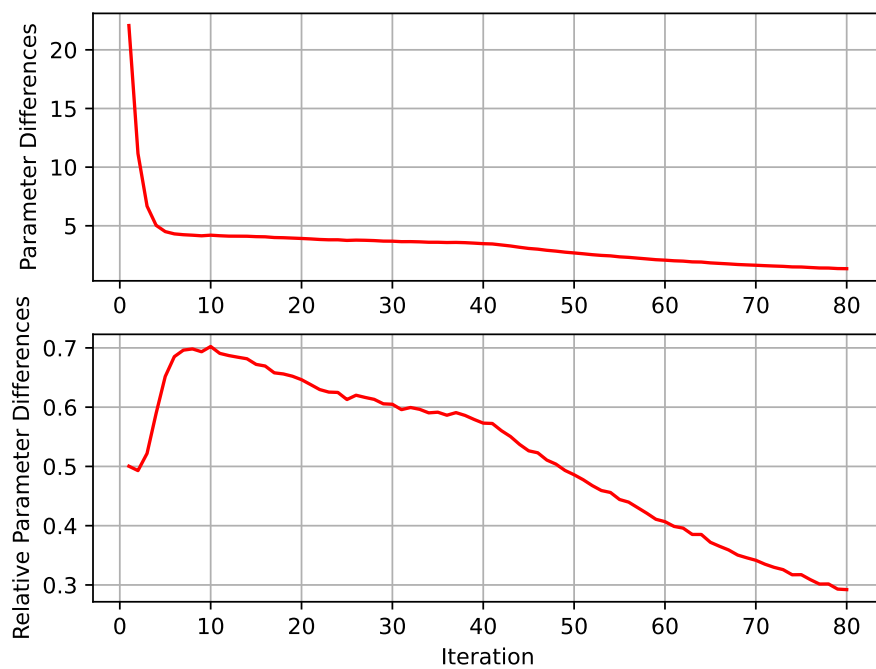


FIG. 41: Parameter differences at tdnnf5.linear



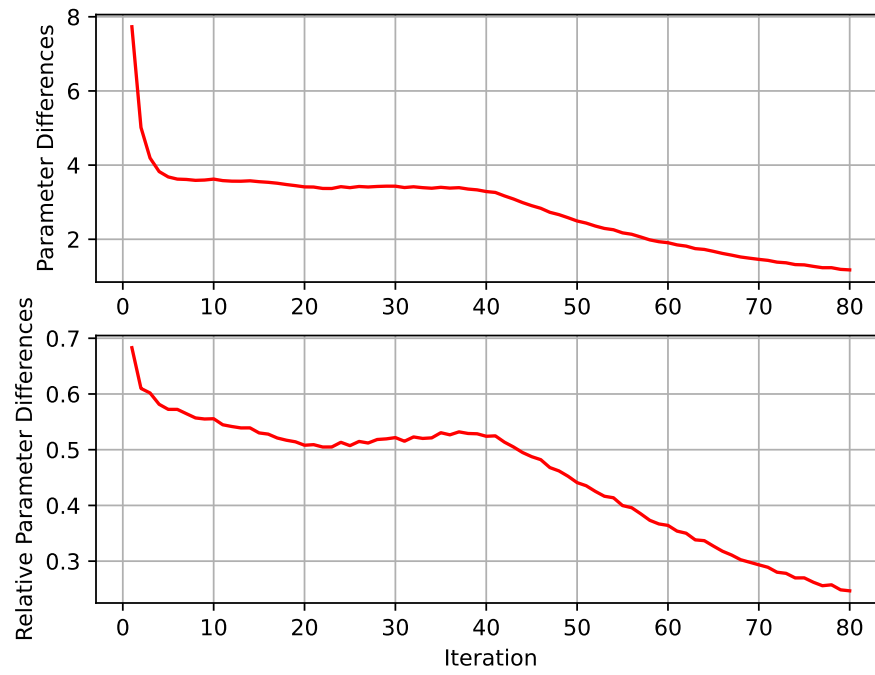
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 42: Parameter differences at tdnnf6.affine



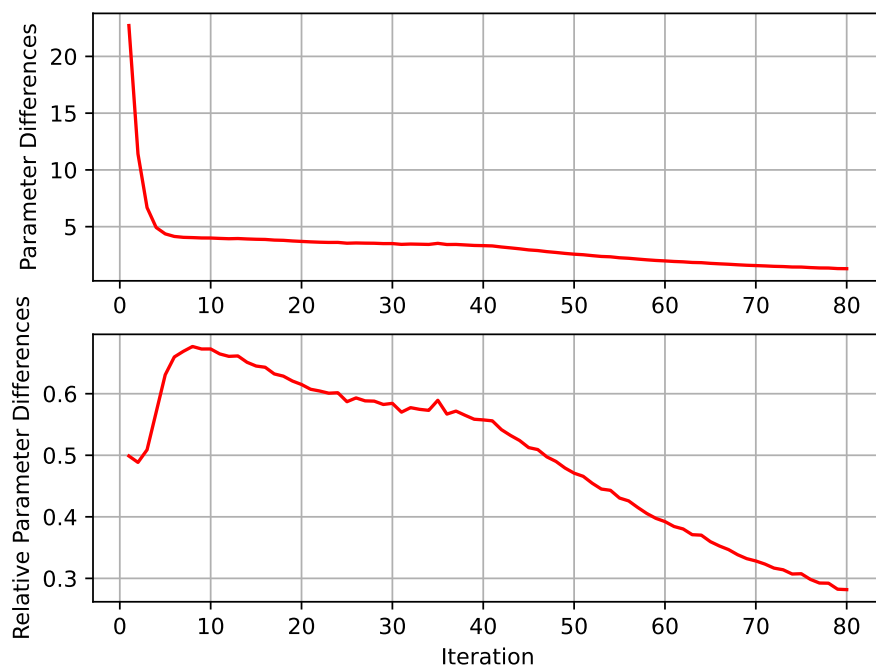
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 43: Parameter differences at tdnnf6.linear



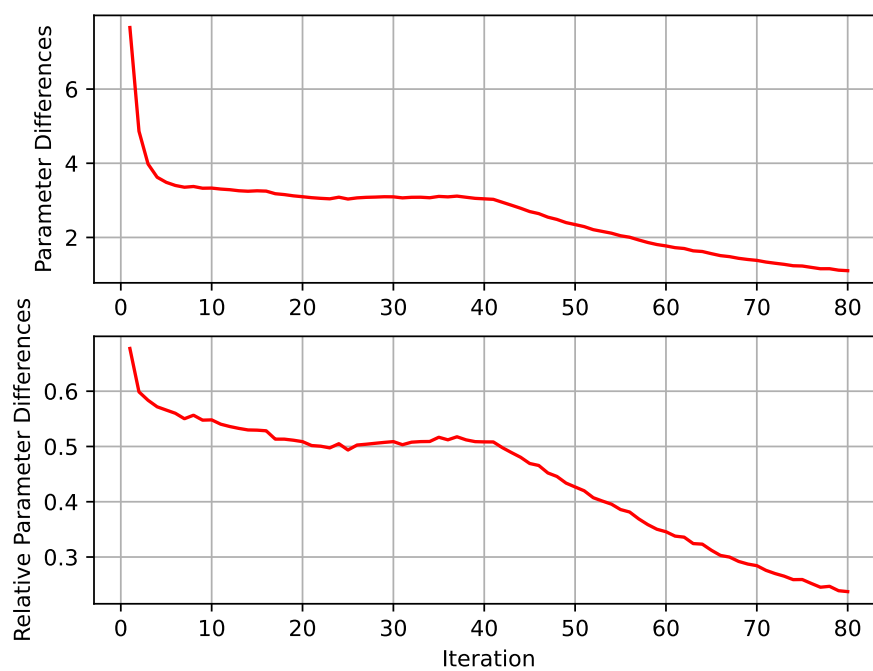
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 44: Parameter differences at tdnnf7.affine



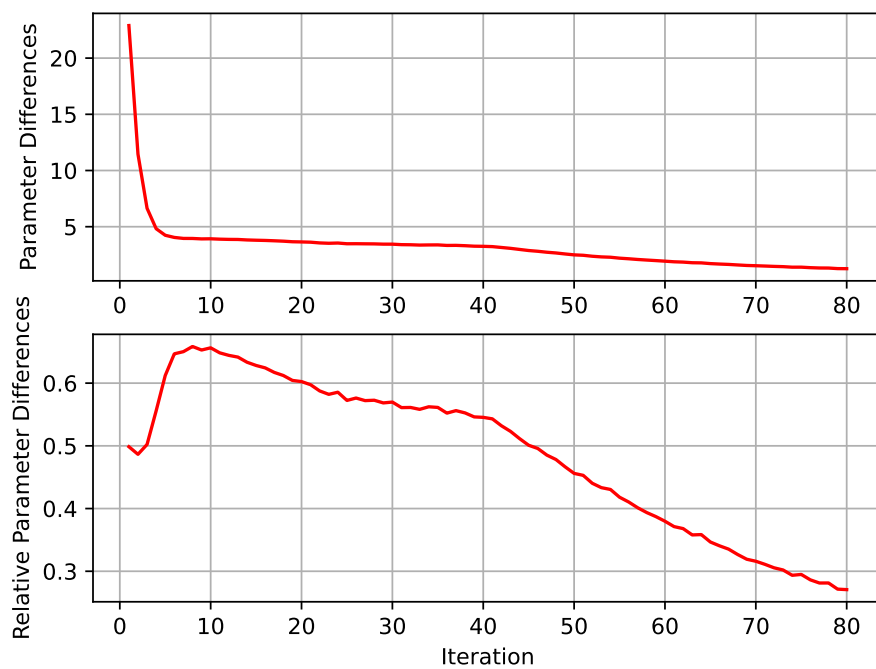
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 45: Parameter differences at tdnnf7.linear



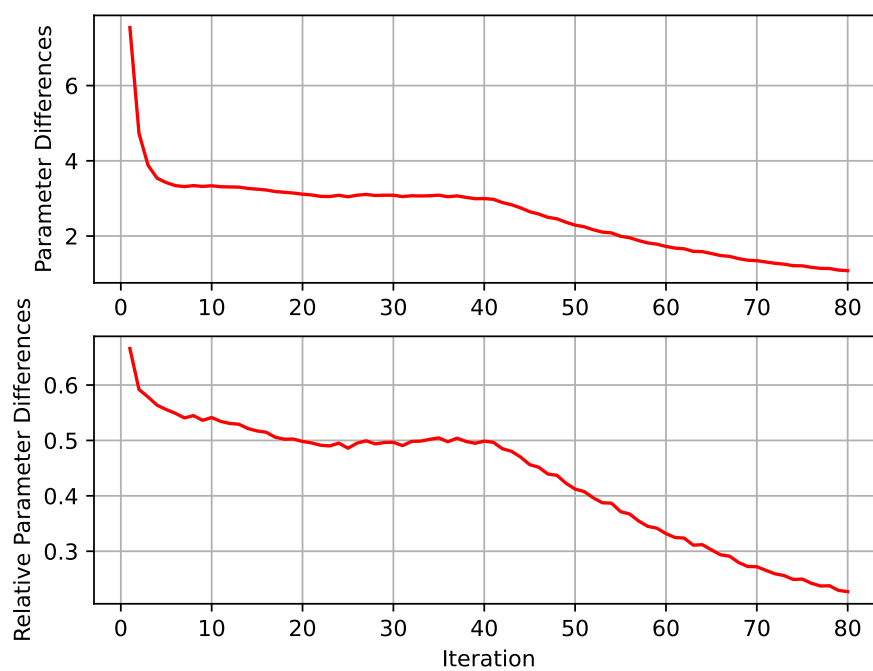
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 46: Parameter differences at tdnnf8.affine



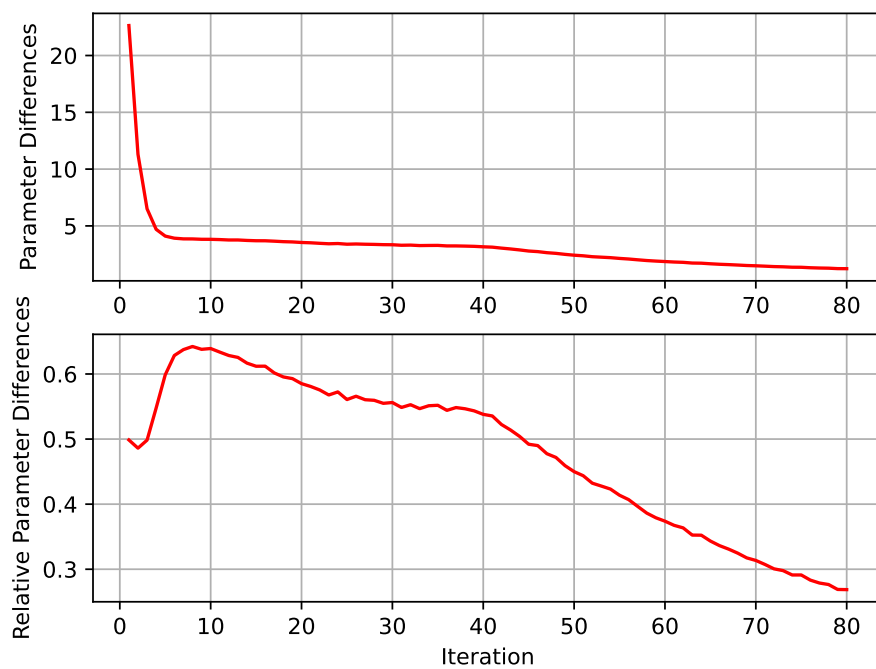
— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

FIG. 47: Parameter differences at tdnnf8.linear



— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/

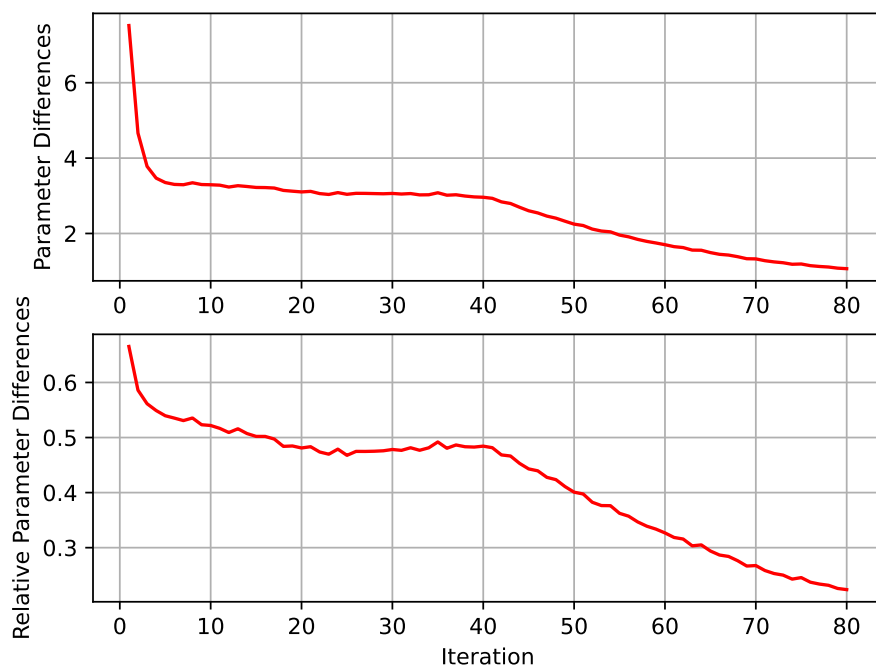
FIG. 48: Parameter differences at tdnnf9.affine



— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/



FIG. 49: Parameter differences at tdnnf9.linear



— Parameter Differences /home/sourya/kaldi/egs/tamil\_telugu\_proj/s5\_r3/telugu\_exp/chain\_cleaned\_1d/tdnn1d\_sp/